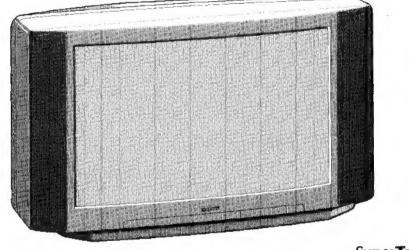
## **SERVICE MANUAL**

## AE-3 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-32WS3A	RM-838	Italian	SCC-J26A-A	KV-32WS3K	FIM-838	OIRT	SCC-J29A-A
KV-32WS3E	PM-838	French	SCC-J27A-A	KV-32WS3R	RM-838	OIRT	SCC-J29D-A
KV-32WS3D	) RM-838	AEP	SCC-J23B-A	KV-32WS3U	FIM-838	UK	SCC-J24B-A
KV-32WS3E	RM-838	Spanish	SCC-J28A-A				





**SuperTrinitron** 

WIDE





## KV-32WS3

ITEM MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)
French	B/G/H, D/K, I,	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 I B21-69 L VHF: F2-F10 UHF: F21-F69 Cable TV: B-Q	SECAM, PAL NTSC 3.58 (video input only) NTSC4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)
Spanish	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): \$1-\$41 Cable TV (2): \$01-\$05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 SECAM D/K VHF: R01-R12 UHF: R21-R60	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 Cable TV (1): S1-S41 Cable TV (2): S01-S05, M1-M10, U1-U10 ITALY VHF: A-H UHF: H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: B-Q UHF: S21-S41	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)
UK	1	UHF: 21-69	SECAM, PAL, PAL + NTSC 3.58 (video input only) NTSC4.43 (video input only)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power Consumption	146W	164Wh	162W	164Wh	162W	242W

## **SPECIFICATIONS**

Picture Tube

Super Trinitron Wide

Approx. 82 cm (32 inches)

(Approx. 76 cm picture measured

diagonally) 110° -deflection

## Rear/Front Terminals

## [REAR]

→ 21-pin Euro connector (CENELEC standard)

- Input for audio and video signals

- Input for RGB

- Outputs of TV video and audio signals

€>2/- 21-pin Euro connector

- Input for audio and video signals

- Input for S video

- Outputs of TV video and audio signals (selectable)

€→4/-€\$4 21-pin Euro connector

- Input for audio and video signals

- Input for S video

Outputs of TV video and audio signals (monitor out)

-82, -84 S video inputs - 4 pin DIN

Audio inputs (L, R) - phono jacks

S video output - 4 pin DIN

Audio outputs - phono jacks

Audio outputs (variable) - phono jacks External speaker terminals : 2-pin DIN (5)

## [FRONT]

Video input - phono jack

3 Audio inputs - phono jacks

⊕93 S video input - 4-pin DIN

Ω Headphone jack : stereo minijack

Sound output

2x30W (music power)

Centre 1x30W

Surround 2x15W

Dimensions

Approx. 906x552x566 mm

Weight Approx. 65 kg

Supplied accessories R

Remote Commander RM-838 (1)

Scroll Commander RM-860 (1)

Batteries R6 (2) Surround speaker (2)

Surround Loudspeaker lead (2)

Other features

Digital comb filter (High resolution)

**FASTEXT** 

TOPTEXT (KV-32WS3A only)

DNR (Digital Noise Reduction)

Scroll Commander

Dolby Digital Surround System

100Hz Digital Plus

Graphic Equalizer PAP (Picture and Picture)

PAL plus (KV-32WS3A/32WS3D/32WS3E/32WS3K/32WS3U only)

NICAM stereo (KV-32WS3B/32WS3E/32WS3U only)

### [RM-838]

Remote control system infrared control

Power requirements 1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions Approx. 65x225x21 mm (w/h/d)

Weight Approx. 157g (Not including battery)

Design and specifications are subject to change without notice.

Model name	KV-32WS3A	KV-32W\$3B	KV-32WS3D	KV-32WS3E	KV-32WS3K KV-32WS3R	KV-32W\$3U
Pal Comb	ON	ON	ON	ON	ON	ON
PIP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON	ON	ON
60 Programs	OFF	OFF	OFF	OFF	OFF	OFF
PAL PLUS	ON	ON	ON	ON	ON	ON
DOLBY	ON	ON	ON	ON	ON	ON
DSP	OFF	OFF	OFF	OFF	OFF	OFF
EQUALIZER	ON	ON	ON	ON	ON	ON
SUB TUNER	ON	ON	ON	ON	ΟN	ON
PAP	ON	ON	ON	ON	ON	ON
MLT.PIP	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	QN	ON	ON
Front 3	ON	ON	ON	ON	ON	QN
Scart 4	ON	ON	ON	ON	ON	ON
DYN. CONV.	ON	ON	ON	ON	ON	ON
PIC. ROT.	ON	ON	ON	ON	ON	QN
Language Preset	Italian	French	German	Spanish	OIRT	English

## WARNING (KV-32WS3U only)

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 AMP capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, ie one that carries the mark.

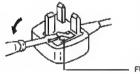
one that carries the AS mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT
SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.

IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.

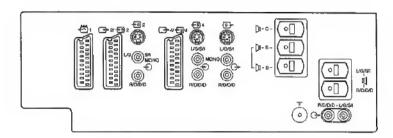
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE
DESTROYED AS A PLUG WITH BARED WIRES IS
DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

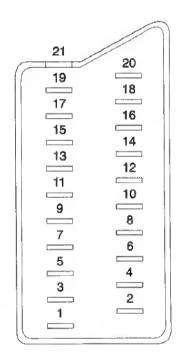
When an alternative type of plug is used it should be fitted with a 5 AMP
FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse. Open the fuse compartment with the screwdriver blade and replace the fuse.

## 

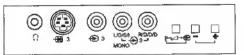




Pin No		Signal	Signal level	
1	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*	
2	0	Audio Input B (right)	Standard level:0.5Vrme Input impedance:More than 10kohms*	
3	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*	
4	0	Ground (audio)		
5	0	Ground (blue)		
6	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms*	
7	0	Blue input	0.7V±3dB, 75ohms, positive	
8	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms input capacitance:Less than 2nF	
9	0	Ground (green)	·	
10	0	Open		
11	0	Green	Green signat:0.7V±3dB. 75ohms, positive	
12	0	Open		
13	0	Ground(red)		
14	•	Ground (blanking)		
15	0	Red input	0.7V±3dB, 75ohms, positive	
Ì		(S signal) croma input	0.3V±3dB, 75ohms, positive	
15	0	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms	
17	0	Ground (video output)	···	
18	0	Ground (video input)	<u> </u>	
19	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)	
20	0	Video input	1V±3dB, 75ohrns, positive Sync:0.3V(-3, +10dB)	
	_	Video Input/Y (S signal)	1V±3dB, 75ohme, positive Sync:0.3V(–3, +10dB)	
21	0	Common ground (plug, shield	)	

O Connected • Not Connected (open) \* at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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## CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING II

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE
SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS
LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE
COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS
APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

### ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

## ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

## ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

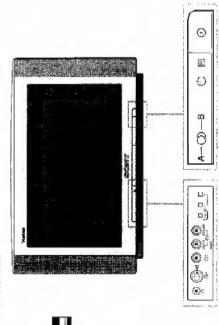
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

## **SECTION 1 GENERAL**

The operating instructions mentioned here are partial abarracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

This section briefly describes the buttons and controls on the TV ask and on the Remote Commander. For more information, refer to the pages given max to each description.

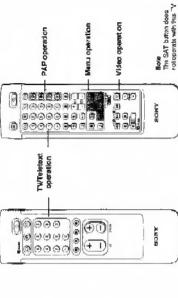
TV set - front



Symbol	Name	Refer to page
	Mair power switch	41,48
	Standby ndicator	48
40°	Stereo A.B mode incicators	50
(-	Headphones Jack	69
<b>19</b> 3. ⊕ 3 ⊕ 3	Input jacks (S video/video/audio)	20
9-7-	Function selector (Programme/volume/input)	84
+	Adjustment buttons for function selector	48

## Scroll Commander RM-860

## Remote Commander RM-838



00000000000000000000000000000000000000	EOMY	
operation		
		7
9090 9090 9090 9090 9090 9090	Auce	_]

		è
		9
		•

Muting on/off button

TV/Teletext operation

Name

Symbol

Standby button

TV power on/TV mode selector button

Simple side

ANO

Full-Function ade

Refer to Page	<b>Эутро</b>	Name	Referto Page
43		PAP on / of button	26
64	+	PAP source selector	929
43	•	Swap buffor	550
	<u>P</u>	PAP freeze button	55
4.3	Menu operation	eration	
649	Symbol	Nems	Refer to Page
4	MENU	Meny on / off button	L#
£	-4/+V	Select buttons	14
47	š	OF (confirming) button	+
\$ :	+	Back button	7
# <u>%</u>	/OK	Scot Cammander Foterto salect/ confirmment functions	salect/ 41

Direct channel entering button

Volume control button Programme selectors

PROGR -/-

(E)

Dougle-digit entering turban

Output mode selector

Number buffens

1,2,3,4,5,6, 7,8,8 and 0

Input mode salector

Teletext buffer

**(II)** 

Teletex Loage access buttons

Pioture adjustment buton On-screen display button Sound adjustment button

Telekett hold button

3 0 (2)

Time display button

Fastord buttons ⊬Freeze « butan

	Back button	<b>=</b>
/OK	Scrol Cammander Folente salecti confirmment functions	17 A
Video operation	ration	
Symbol	Name	Refer to Page
VTR1/2/3 MDP	Video equipment selector	61
	Video equipment operation buttons	29

37

H

Button to change Screen Format

# O Connect the aerial **Getting Started**

## Step 1 - Connection

Violes:
-Convector appealous
-London the basis provided making such or observe the following adeathy:
The stipped basis is (+) and effour, be connected to few red femalial or it is speaker.

The black ladd is (-) and should be connected to five black terminal on the speaker.



# Connect the speakers

Dolby (\*) Fro Legic Surround vequires normally 5 speakers, whose functions are as follows: Centre speaker; (incorporated in the TV aest): to anchor the stable sound image, like clapque, to the TV screen.

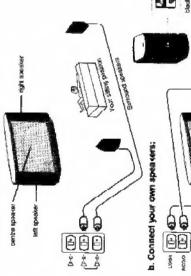
Left and Right from a peakers: for the normal two-channel steep breatcasts.

Burround apeakers: for the special effects created by the surround channel. To obtain the full benefit of your Dolby Pro Logic Surround TV, the speakers should be positioned as shown below:

Before switching on: connect the speakers to the TV set.

## a. Connect the speakers provided only:

Fit an IEC cental connector attached to 75-chm -coxual cable (not supplied) to the T suchet at the rear of the TV. Make sure to take an earlal cable connector for the relevant regulations.



Robe:
If you prefer to use your
Our Speakers make sure
they see at lesse 8.0.2.
Impodence and are
magnificating this look
Observise picture
distribut may occur.

left speaker

## Step 2 - Preparation Insert the batteries into the

Remote Commanders



Reft the outside cover naking sure that the Full-Function side is visible to use the menu in Step 3.



Check the correct polarities.

Check the corect pointles.

Remove the cover.

8

(\*) Manufacturind under Kernas from Cobby Lacrastron Cobby Lacrastron Cobby Lacrastron Cobby Lacrastron Corporation. ECLEY, the double-D syrrito ID and "PHO LOGIC" are institution of Deby Laborabries Lockneing Corporation.

# Step 3 Tuning in to TV Stations





Once you have set up the TV, you can choose the language of the menu. Then you should present the channels (up to 100 channels) by choosing either the submedic or manual method. The automatic method is essier if you want to preset all ecotivatile channels at order. Use the manual hathoof if you only hashe at the variantle and want to preset channels one by only the manual method is also contremented for allocating programme numbers to various vices input sources.

## Before you begin

Check that the Full-Function side of the Remote Commander's

Locate Manu operation buttons on the Remote Commander. They are sheded in the illustration arthe feft.

## Easy Menu operation using the Scroll

set is supplied with an extra Remote Commander. The "Sorol Commanders works with a roller for convenient, fast-access operation of the menu functions. In addition to our double-sload Remote Commander, your TV

BORY

Move the roller upwards to move the cursor upwards, move the roller downwards. press the visor to confirm a selection. The other buttons on this commender have the same throdors as the respective buttons on the southle sales therefore as the respective buttons on the southle stated ferrore Commender.

## O TO COLOR MEND

## Choose a language

The TV will switch on, if the standity indicator on the TV is lit, press C or a number button on the Remote Commander. Depress @ on the TV.

The LANGUAGE menu appears, (See Fig. 1) Select the language you want with  $\Delta \star$  or  $\nabla -$  and press CK. Press the MENU Ludon.

N



Press 4= to goback to the previous position. To go back to main

flycu have made a

Į. action from the control of the contr Balant STA

Display the Menu
Fress the MENU button w/se.
The mair menu appeare. (See Fig. 2)
Using 2.4 or 7.4 select the symbol and press CK.
Using 2.4 or 7.4 select the symbol and press CK.

To go bask to the sermal TV picture: Press MEU, Norda, "V picture will be restored after one making il menu lunctors are not selected.

To go back to man

Keep preszing ←.

Now, choose one of the methods described developed workest Channels Automatically.

Preset Channels Nanuallys.

I you choose Denoing the Installition menument

demonstration of the manu functions, Press WENU to stop The function,

ō

Hole on the Demo

Kaes preserve 4...
Ta go beckto the normal TV pidure:
Press MENU.

## 3 Preset channels automatically

Select the symbol E³ for Preset = with △+ or ▽ − and press CK.
 The FRESET menu appears. (See Fig. 3)

Select "Auto Programme" with  $\Delta+$  or  $\nabla-$  and press OK. The AUTO PROGRAMME menulappears. (See Fig. 4)

To exp automatic charmal presetting.
Press e- on the Remote Communication.

With this method, you can presed at racelvation channels at once.

European or DY for Eastern European countries) with  $\Delta+\cos\nabla-$  and press QK. The first element of the HROGs number will be Select if necessary the "Vibroadpast system (B/G for Western Prese OK.

After presenting the channels automatically, you can check which channels are spred or

**⊕**|(€

**9 0 ⊕** Ê

0

Select the programme (tumber button) from which you want to start presetting. Select the first element of the double-digit number with  $\Delta +$  or  $\nabla -$  or the number buttons (e.g. For \*04\*, Select =0 + here) and orass OK highlighted

which programme positions. For fetalls, see «Displaying the Programme Table» on page 48.

88 Belon V.S. and press CA

80

2 # O # = -

Select the second element of the double-cig1 number with  $\Delta + \Delta r$  $\nabla-$  or the number buttons (e.g. For \*04\*, select  ${\rm *4}{\rm *}$  here) The second element of \*FROG \* will be highlighted. (See Fig. 5) and press DK.

programme positions to screen in the order you like. For double, see Scaling Programme Pesitions- un page 44

A NOR

. You can sort the

Wher presetting is finished, the preset menu neappears. All areliable channels are now stored on successive number buttons. Press menu to realore frormal TV picture. Salect »C» or »S≈ with ∆- or ∇- and press DK. The automatic channel presetting starts.



## Preset channels manually

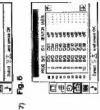
Use this maintid if there are only a tew channels in your area to preset or I you want to preset

charnels one by one.
You may also allocate
programme numbers to
various video input

Programme names are witch relicially. Lefen from not, Aleasa refer to page not, Aleasa refer to page and — Capponny a Stabon name - for non information.

 Select the symbol (2) bit "Preset" with Δ+ or V - and press CK.
 The PRESET menu appears: (See Pig. 6) Select ∗Manual Programme Preset∞ with Δ - or ∇ - and

The MANUAL PROGRAVIME PRESET menuappears. (See Fg. 7) prese OK



## ğ 1

Ta ture in a chemical by froquency:
After selecting Fin also & enter three digits using the number buffors.
Pless OK.

(See Flg. 8)

Using △+ or ∇- select C (to preset a regular charmel). S (cable Using  $\Delta + cr \nabla - select the programme position (number button) to which you want to press: a channel, and press OK.$ Select, if necessary the TV broadcast system or a video input Than press OK. The CH position will be highlighted. source (EXT) with  $\Delta +$  or  $\nabla -$ .

100 De 04

channel) or F ito tune in  $t_F$  frequency) and press OK. The first element of the e.C.H.: number will be highlighted. If you have secreted EV in alop  $\delta_c$  select the video input source with  $\Delta + cr \nabla -$ . See  $F(g, \theta)$ .

IN ERT

There are two ways to preset channels. If you know the channel number, go to step >7-Manual...,

if you don't know the channel number, go to step = 7- Search

Select the first element of the »CH« number with  $\Delta +$  or  $\nabla -$  or the number buttons and phess OK.

The second element of the »CH+ number will be highlighted.

Select the second element of the number with  $\Delta +$  or  $\nabla -$  or the The selected rumber appears. (See Fig. 10) number buttons. ڄ

The SEACH+ position is highlighted and the selected channel is now sored. (See Fig. 11)
Press CM until the cursor appears by the next programme position.

P

I you have made a

Repost steps 3 to 7 to preset other channels

Search

Please who applicately to the personal postular.

The go back to main menu:

Keep pressing w.

The go back to the normal

The go back to the normal

The go back to the normal

Press MENU.

Prece CK repeatedly until the colour of the SEARCH position

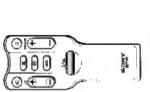
Start searching for the channel with  $\Delta + (up)$  or  $\nabla - (down)$ . The CH position changes colour. (See Fig. . 2) The CHinumber starts counting up or downwards. When a channel is fourd, it stops. (See Fig. 13) P

Press CK if you want to store this channel. If not, press  $\Delta + \alpha r$ V— ta confinue channel searching.

ę

Press OK until the cursor appears by the next programme

Repeat steps 2 to 7 to preset other channels.



## Additional Presetting **Functions**



Before you begin

Check that the Full Function side of the Remote Commander is visible Locate the Menu operation buttons.

Sorting Programme Positions

With his function, you can sort the programme positions to d preferable order.

Press MENU to display the main menu.

Bac I

Move PV to PV

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Salact the symbol  $\stackrel{\rm col}{=}$  for »Preset» with  $\Delta$  – or V – and press OK. The PRESET menu appears,

Select \*Programme Sorting\* with &+ or V = and press OK. The FROGRAMME SORTING menu applicats. (See Fig. 14)

Using  $\Delta+m\ \nabla-select$  the programme position which you want to move to another and press OKThe colour of the selected position changes. (See Fig. 15)

want to move the channel of the programme positions beleated in size 4 and press OK. Now the programme positions have been sorted. (See Fig. 16)

Repeat steps 4 and 5 to sert other programme positions.

C2 NO C29 off -----

F0.10

SOMY

Using ∆+ or ∇ - select the programme position to which you



## How to adjust the Picture Rotation

If due to the earth magnetism the picture "slams", you can use the function • Acture Rolation • to readjust the picture.

programme postions; The display scrals automatically.

All terms

mi Mes 030

Flg. 13

Flg. 12

92 33

Select the symbol 🖾 for ~2rbset< with Δ+ Ω ∇ – and press OH. Press MENU to display the main menu.

The PRESET nertu appears.

Prese - to co seck to the previous To go back to male nervice To go back to the normal TV pleture: Press MENL.

ros have made a

Select winstallations with  $\Delta+$  or  $\nabla-$  and press OK. The INSTALLATION menu appears.

Select »Picture Rotation≈ with ∆+ or ∇−, any press CK. The PICTURE ROTATION menu appears, (See Fig. 17)

Keep pressing ...

Piess OK. Adjust the picture notation with  $\Delta$  - or V - unit you have an upright picture. As you press the custor buttons, the range changes from - 4 to + 4.

Press OK to stone the adjustment.

\* Ŷ



## Using »Further Programme

## Preseta

Using the meau »Further Progrettive Preset» you can

- In case of a strong local serial signal (sinked picture) attenuab the agnet individually for each programme position (RF atterustor). 8
- individually acjust and stare the vidume level of each channel
- (Volume offset). ā
- In case of a strong sound signal (distorted sound), attenuate the sound signal foreach programme oceition.

T

- use he manual line luning to obtain a better picture reception if the picture is distorted. Normally the AFT (automatofine builty) 7
- Press MENU to display the main menu.
- Select the symbol  $\frac{1}{2}$  for "Preset-with  $\Delta +$  or  $\nabla -$  and press CK. The PRESET menu appears.
  - Select ∞Installation< with Δ+ or ∇- and press QK. The

日後の個国へ

- Select oFurther Programme Preset« with Δ+ or V and prese OK. The FURTHER PROGRAMME PRESET menu appears INSTALL ATION menu appears.
  - Using A+ or V select the desired programme position and oness OK once to select a) ATT\* (RF Attenuator), twice to select t) AUC, \* (Volume offset), three times to select t) AUC, \* (Volume offset), three times to select t) AFT (Automatic Fine Tuning). The selected item changes colour. (See Fg. 18).

Fig. 18

To adjust or change:

## AT attenuator (ATT)

Usiny  $a+\sigma \nabla - select *On* for the selected programme position. Press OK to confirm the relection. Repeat step 5 to attenuate other programme positions.$ 

## Volume offset (VOL) ā

Lising  $\lambda + cr \nabla - ycu can adjust the volume level for the selected programme predition within a range from -7 to +7. Press OK to store the volume level.$ Repeal step 5 to set the volume feval for other programme positions.

## IN-AMP (Input ampiffler)

ច

Using  $\lambda + \text{cr V} - \text{select } \sim \text{Offic for the selected programme position. Press OK to confirm the selection. Repeat step 5 to switch off the input amplifier for other programme positions.$ 

To reactivate AFT
(Automatic Fine
Tualing)
Repeat from the
(engineing and select

Using  $\Delta +$  or  $\nabla =$  you can fine-tune the charnol within a range from -15 to +15. Proce DK to store the fine-tuned evel. Repeat step 5 to fine-luve the other channels.

Press MENU to return to the normal TV mode.



## Skipping Programme Positions

You can skip\_mused programme positions when selecting programmes with the PRDGR +<-bulkons, However, the separate programmes with the programmes may skill be called up when you use the number buttons.

- Press MENU to display the main menu.
- Select the symbol  $\vec{e}$ 3 for  $\sim$ Presett with  $\Delta+$  or  $\nabla-$  and press OK. The PRESET menu appears.
  - Select -Manual Programme Preset-- with △+ or ▽ and
- press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 9) Using  $\Delta + \text{or } \nabla -$ , select the programme position which you want
  - Press ∆ + or ∇ until > - appears in the SYSTEM position. The .SYS. position changes colour. to elign and press OK.

(Sea Fig. 20)

Press QK. (See Fig. 21) When you select programmee using the PROGR #—buttons, the programme position #ill be skipped. Repeat steps 4 to 6 to skip other programms positions.

## Captioning a Station Name

Programme names are usually automatically faken from Teletraxi if evelleble. You can also a name, a chamel or an input video acure a using up to five otheractions ideties or numbers) to be deposad or the TV scheen (e.g. BBC); Using this function you can easily identify which chame or video source you are

Select the symbol E for > Preset = with Δ + or ∇ – and press CK. Press MENU to display the main menu. The PRESET menu appears.

Pleas to go back to the previous position. ffycu have made a middelec

To go back to main Кэер ртезвітр Ф.

press CK. The MANUAL PROGRAMME PRESET menu appears, (See Fig. 22) Select -Manual Programme Preset~ with ∆+ or ∇- and

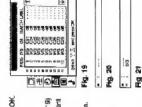
Using 2.4 or  $\nabla$ -, select the programme position you want to exprion and press OK repeatedly until the first element of the LABEL position is highlighted.

To go beak to the normal TV picture: Press MENU.

Select other characters in the same way. If you want to leave Select a letter or mumber with  $\Delta - \operatorname{cr} \nabla - \operatorname{and} \operatorname{press} \operatorname{OK}$ . The next element will be trighlighted.

After selecting all the characters, press OK repeatedly until the custor appears by the next programme position (at the left margh). Now the caption you chose is stored. (See Fig. 24) element blank splect - and press OK. (See Fig. 23)

Repeat steps 5 and 6 to caption names for other channels.





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ą.	Fg. 23	6
000		

. Fg. 22

7 2



Parental Lock

Fyou try to select a programme that has been blocoed:
The measage ALOCKED - appears on the blank TV screen.

Select the symbol [11] for «Preselv with Δ» or ∇» and press OK. You can prevent undeskrable broadcasts from appearing on the soreen. We auggest you use the "undion to prevent children from watching programmes which you consider unsuitable. Select - Parental Lock\* with  $\Delta+\alpha^*$   $\nabla-$  and press DK. The PAHENTA\_ LOCK menu appears. (See Fig. 23) Press MENUto display the main menu. The PRESET menu appears.

E POST

Using  $\Delta + \text{or } \nabla -,$  select the programme position you want to block and press CK.

The symbol is appears in front of the programme number indicating that this programme is now blocked. (See Fig. 25)

Repeat step 4 to block other programme positions.

On the PARBNTAL LCCK menu, select the programms position you want to unblock with  $\Delta + \alpha r \, \nabla -$ Cencelling blocking

The symbol **B** deappears indicating that the blocking has been Press O.K.

## Tuning in a Channel Temporarily

You can tune in a charmel temporarily, even when it has not been presel. Use the buttons on the Pull-Function side of the Remote Commender.

Press C on the Remote Commander. For cable channels, press The indication »D» (»S» for cable channils) appears on the C twos.

Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, than 4). The channel appears.

However, the channel will not be ground.

This section expains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commission.

## Switching the TV on and off

Switching on

Depress © on the TV.

Prists & on the Remote Commander.
The TV enters standby mode and the standby indicator on the front of the TV lights up. Switching off temporarily

⊕ ⊕ ⊕ ⊕ - ⊕ - √

Press O, PRCGF +/-, or one of the number buttors III the Remote Commender. To switch on again

Switching off completely Depress @ im the TV.

## Selecting TV Programmes

Press PROGR +- or the number buttons.

For example, if you want to choose 23, press -√--, 2 and 3. To select a double-cligit number Press ----, then the number.

Adjusting the Volume

If no patchure papears when you depress © on the TV

Proce 4

## Operating the TV Using the

and if the standby indicator on the TV is it, in it is the standby include. Prest ⊆ or one of the truther buttons to switch it on.

With the buttors on the Tv. you can select programmes, adjust the volume, and select video Irput eources. Buttons on the TV

Press P → ∠2 → ← button repeatedly until the programme

number, — (for vicines) are differentiable input picture)
appears. Then adjust with the Ar-baldons.
Press Ar-buttons to switch on the TM from the standby mode.
Press A-strout transcript on the TM from the standby mode.
Press A-strout transcript on respect pictures and sourid contracts in
the healety present level (RESET furnisher).

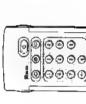
## Instructions Operating II

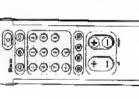


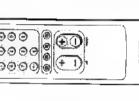
H#2554

오존합정답

100







BONY

4

## For details of the telefaxi operation, refer to page 58.

Watching Teletext or Video Input

Watching teletext

For details of the video input pleture, refer to page 60.

## 080000 00000 00000

## Peas © to view the teletaxt. Press three number buttons to alect a page. Press three problem buttons to featbad operation. Press E (PAGE-4) or @ (PAGE-) for the next or proceeding page To go back to the normal TV picture, press O.

Wantshing a video input plature
Press ← represedy until the desired video input appears. To go
eack to the normal TV picture, press □.

## More Convenient Functions

Use the Full-Function side of the Remote Commander.

Press G orne to display all the indicatione. They will disappear after soroute. The more soroute is the programme number and label sibly on screen. Press twice again to make indications deappear. Displaying the on screen indications

## Muling the sound.

Press ⊄. To resume normal sound, press ≮ again.

Displaying the time Press ©. This function is available only when telebod is broatcast.

## formake the time display disappaar, orass 🖾 again.

Displaying the Programme Table
Press CK: A Programme Table will be displayed on the laft tide
of the TV screen (See Fig.27).

##585E8#5E

## Selecting TV programmas

THEO BE

Press PROGR +1—at select the desired programme position using  $\Delta$ + in  $\nabla$ - and press OK.

Rg. 27

## To make the Programme Table cleappear, press MENU.

When watching the TV you have the possibility to wirestar the picture. Press Mr. Prass the button again to rejum to the normal TV picture. Freezing the Picture

## Changing the Screen format

Priest III repeatedly to change the Screen mode as follows:

## 4:3 (4:3 picture)

- Smart (instation of 15:9 for 4:3 broadcast)
- Zoom (imbalion of 16:9 for novies broadcast in dinemascepto format)

- → PALplus ('or PAlplus broadcast)
- See also page 54 for more information. Wide (for I 8.9 broadcast).

## Adjusting and Setting the TV Using the Menu **⊕**|(€





Press MENU and select the synton [==] for Picture Centrol or \$ Sound Control, then press OK.

The PICTURE CONTROL, or 300 ND CONTROL, menu

Uaing  $\Delta +$  or  $Z_{\infty}$ , select the Item you want to adjust and press OK. The selected New planges polour. (See Fig. 30) Adjust the setting with  $\Delta+or\nabla-and$  press OK. The cursor appears beside the next liern (at the left margin).

appears. (See Fig. 28 or Fig. 29)





(See Fig. 31) For the effect of each control, see the table below Repeat steps 2 and 3 to adjust other items.

ı			
o Bilthean	FIG. 30	minimización m minimización m	Fig. 31

o Birthon	Mg. 30	estation of the contract of th	Fig. 34

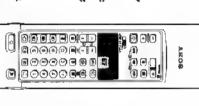
## Effect of each control

PICTURE CONTROL	CHAC
Contrast	Less Nore
Brightness	Darker
Colcur	Lists More
Hue (only for NTSC)	Greenish — Reddish
Sharpners	Soller — - Sharper
Reset	Resets picture to the factory preset levels
Notes Reduction	Off: Normal on: Reduction of picture raise in case of weak signals
Digital Mode	1: Normal 2: LFR (Line Floker Reduction) titl
SOUND CONTROL	Effect
Guphic Equalizer	(See sege 52 tor more information)
Surround Mode	Off. Normal + Dolby + Hall
Hall Effect	Choice between different hall effects
(only if «Hall» is on)	Room → Doms → Arsna
Dual Bound	A : left channel     II : right channel   Starco   Mono The selected mode of the ACD-B hatcator on the TV lights up.

										_	
I INVINE C. L. T. LINE PARK CONTROL OF	†		(managed and the more commenced)	Off: homsel + Dolby + Hall	Choice between different hall effects	Roam → Dorns → Arsns	A : left of parmel       : right channel   Starco Morro The selected mode of the ACD-B holizator on the TV lights up.		Less -+- Mos	A: charmel 1 + B: charmel 2 + PAP (if PAP is awtohed on you can select the PAP sound for the headphones)	Stereo + Mono
Ugiral mode	COLIND CONTROL	GOUND CONTINUE	Glaphic Equalizer	Surround Mode	Hall Effect	(only if »Hall« is on)	Dual Sound	Headphones:	Ovelune	O Dual Sound	









hass - to go back to the rentous position.

to go beek to the main IL som have made a

Neep pressing 4-. To go back to the normal TV picking Press MENJJ. Hall Surround and Delay Pro Logic are not available via headphones.

For setting the Balence See page 21 Lavel settings.

Acts on LIVE CUT: The audio lavel and the

dust acundence cutput from the GH jack on the neer conseasond to the HEADPHONES VOLUNE und DUAL SOUND settings.

When watching a video right source with elerc You can select DUAL sCUIND to change the sound.

B 8

## Dolby Pro Logic Set Up

This menu enables you to edge! the Dolby Pro Logic Surround leatures to your individual requirements. With Dolby ProLogic Surround yau can experience whree dimensional- cound when receiving Dolby Surround encoded

Dolly, Pro Logic uses 4 sound charmels to supply 5 speakers:
Left and Taght. Left and Yahr Ty prostors.
Centra: Centra speakers of allaling less
Surrentind: Surrentind appearance and appearance of Left and Level Sathogs. a note, governor, enable es yau no adjust
the nound levels of the speakers for your individual listering,
postion. From your fisienting position as sound levels should be
the sane. Adjusting the sound level of the speakers

Selection of the select

Press MENU, select the symbol  $\stackrel{\frown}{e}$  on the screen for \*Preset\* and press OK. Then salect \*Intra labors and \*Dolby Pro Logic Set  $U_P$  weight  $\Delta +$  or  $\nabla -$  and press OK. The DOLBY PRO LOGIC BET UF menu appears. (See Fig. 32)

Flg. 32

Press DK. The cursor moves to L (sound level of the left spouker) (See Fig. 33) and you hear a test tone from the left speuker.

connect your own or the supplied speakent, to the set, (See page 36).

Valva sure to

Doby Pro Lagic when sectiving Doby Surround encoded

programmes.

This adjustment is necessary only once when you healt the TV and the speakers or shappe their

— 13 —

s) To change the level: Press DK and adjust the Maril ghied bar by pressing  $\Delta+or\,\nabla-mpeatedly.$  Fress DK to confirm the adjustment.

b) To go on the next bar: Press  $\Delta+$  or 7- to select Centre, Right or Surround, Adjust using step 3et.

Repair steps 3s and b to adjust at sound levels.

Press ← Electi⊁Leve Settings- and Ment to return to the norms TV screen.

Using  $\Delta + \text{ or } \nabla - \text{ salect "Dolby Prc Logic Set Up" in the$ Setting Speaker Mode and Delay Time

Instellation menu and press OK.

Press 7- to seect - Speaker Mode and press OK Phantom: if the partie speaker is not used Normal: If all speakers are activated Using ∆+ or ∇ - select

select a time deay for the sound of the surround speakers which depends on your room size (e.g. 20ms for standard rooms, 30 ms for small worms) Press 7 -- to seect »Delay Time» and press OK, You can 3 atereo: If the surround speckers are not used Press OK to confirm your selection.

15 тэ № 20 та № 25 ть № 30 та

Press MENU to return to the normal TV screen, Press OK to confirm your selection.

Using this function you can individually adjust the equitably cutting and boosting selected frequencies. You can also adject between the following medes:

Select «Sourd Control» in the main menu, then select «Ciraphic Equaliter» using  $\Delta +$  or  $\nabla -$  and priess OK. The GRAPHIC EQUALIZER menu appears (See Fig. 34). Press OK. The colour of »Mode» changes. Select the desired mode with  $\Delta = cr~\nabla = arc~press~O.C.$ Fist → Pop → Rock → Jazz → Vocal → User

Morac The modifications made in 4456Rs mode valles stored All other settings are seek to factor-see level when you change to another mode.

If you want to modify a node, select the desired bar of a frequency band using  $\Delta$  - or  $\nabla$  - and press QK. The selected frequency band using  $\Delta$  - or  $\nabla$  - and press QK. The selected frequency dark press QK. In this way you can adjust the  $\delta$  equiphic bars.

Press MENU to return to the normal TV mode.

Preset Dotby Pra Logic

To enjoy programmes encoded in Delby Surround sound, switch an «Delby Pro Logic» in the sound menu.

The SOUND CONTROL menu appears. PTESS 2) on the Remote Commander.

Using  $\Delta + or \nabla - salect * Surround Mode* and press DK.$ N

Alter the end of the broaccast make sure to return the setting to "OFF". Using △+ or ∇+ select »Dolby» and precs OK.

Using the Sleep Timer

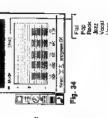
You can select a time period after which the TV autometically switches into standby mode.

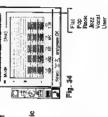
Using  $\Delta+$  or  $\nabla-$  select the symbol  $\Theta$  for \* Timere and press OK. The TIMER manu appears (see Fig. 35). Press OK.

Select the time period with  $\Delta+\alpha^+\nabla^+$  . The time period its minutes, changes as follows: 10+20+30+30+50 The time period option changes poour,

50 GE

Atter aetecting the time period, press OK.
The euror moves back to the left margin and the timer stants One mixute before the TV switches into standby mode, a measage is displayed in the screen.





A Live Sample of the Control of the 



timer: Select =OFF\*\* in step 3. To aveiltch off this

To go best to the normal TV sistems: Press MENU.



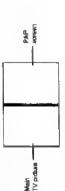
To almost the remainting time: Prese ©.



# PAP (Picture and Picture)



With this function you can display two screens at the same time. In this way you can watch two TV programmes at the same time. Also you are watch for monthly the wides cubul from any connected equipment (for exemple from a VCR) with watching TV or vice verso. "To information about connection of other equipment, refer to page \$9.



Switching PAP an and off Press (I) to dispay the saredra: n.8:9 format. Press (I) twics to display the screens in 4:3 format. The PAP excented by displayed sext to the main TV screen. The PAP excented from the source chosen when the TV was lest used.

Prese ( repeatedly.

## Selecting a PAP source

The symbol f will be displayed at the bottom, left-hand corner Press PROGR 44, the number buttons or 40 to select the desired source for the PAP screen

## Swepping screens

The engin screen will switch the picture with the PAP screen.



The sourc or the right soreon is only available via the headphones.

• PAP is not evaliable in the Zoom mode == the PALphus mode.

The picture cusfly of the TV expendent
 PAP may differ.

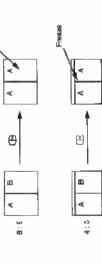
< 10

## Freezing the picture You tare the possibility to riveze the poture of the PAP screen. Press G. once but recens and twice to return to the normal carrier.

FIBEZE



-Tee28



## Operating Screen Mode/PAP using the Menu

Using the Scient Mode menu you have the possibility to change the support calls by the TV display for wide screen eighbal, opacies the PAP Mode, preset Ath Pall put or reproduce the main picture image by Image (Sirobe function) Press MENU to display the main menu.

Select the symbol  $(\overline{O})$  to "Screen Mode" with  $\Delta$  - or V - and press OK, The SCREEV MODE menu appears (See Fig. 38)

You have the choice among the following modes:

Imitation of wide screen effect (15:9) for 4:3 broadcasts (See Fig. 38). for normal ratio 4:3 (See Fig. 37). Smert 88

imitation of wide screen effect (16:9) for movies throadcast in cinemascopic format (See Fig. 39).

Zoom:

90:0 9 90:0 30:0

for PAL plus broadcasts. PAL plus:

MODEL

for 16:8 broadcaste (See Fig. 40). Wide: Changing the Screen position (ends for Zeon mode). When using the Zoom mode part of the picture at the top and bottom will be out off. With the help of the function = Screen position, you can move the somen up- or cownwards in order to see the cut-off part of the screen (e.g. to read the subtiles). Ŧ

Using  $\Delta+$  or 7- select \*Screen position\* and press OK. The selected item changes colour. Leing  $\Delta+$  or  $\nabla-$  adjust the screen position and press OK.

Strobe Mode

Using  $\Delta + or \nabla - select, -Strobe- and press CK. Now the TV plottine in displaying integral by transplus controllor effect (See Fly. 41). Using <math>\Delta + cr \nabla - select the speed of the motion (3 different speeds are available). Press CK to return$ to the normal TV mode. a

Switching PAP an and off T

Using  $\Delta+$  or  $\nabla-$  select \* PAP\* and press GC. Using  $\Delta+$  or  $\nabla-$  select \*1\* to display the PAP screen in 8:9 format, \*2\* for 4:3 format and "OFF" to awitch it of and press OK.

Freezing the PAP sorrem T

Using  $\Delta + \text{or } Y - \text{select.} \times \text{Lip}$  Boards and press OK. Using  $\Delta + \text{or } Y - \text{select.} \times \text{On-}$  to freeze the PAP accent and  $\times \text{Off-}$  to settore the normal picture.

Rg. 41



FIP. 36



F. 38

8 5



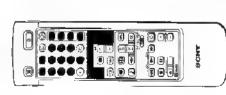
8



2 K

Notes:

- RQB input source
cannot be deplayed in
PAP.



Telefact errors may occur if the broadcasting signals are week.



Fasest operation is only possible, if the TV starton broadcasts. Fasest algreis.

È.

TV stations bracksast an information service called Telebrat via the "Channas, Telebrat service allows you to receive vianue information pages such as weather reports or heavs at any time you went. For abxenced leelebr, operation, use the buttons on the Full-Function side of the Rennie Commander.

## **Direct Access Functions**

Switching Taletext on and off

Select the TV channel which carries the telelext broadcast you

want to watch.

A heldoor page will be displayed (usually the index page). If there is no beleast broadbast, a No tout available—is displayed on the information line at the top of the screen. Press (2) to evitch on telebert.

To swhich taletaxt off

Prass O.

## Selecting a reletert page

With direct page selection Use the number buttons to input the trace digits of the choesn

If you have made a mistake, typs in any time digits. Then repage number.

anter the comed page number

With page-catching Select a taletext page with a page overview (e.g. index page).

Press OK, Using  $\Delta + or \nabla -$ , select the desired page. -Page Catarings will be displayed on the information line. Fress OK The requested page will appear in a few seconds.

Press (8) to resume normal teletion.

Accessing the next or preceding page Press € (PAGE +) or (8) (PAGE +).

## Superimposing the teletuat display on the TV programme

The next or preceding page appears.

Press © once in teletext mode or twice in TV made. Press © again to resume normal taletext reception.

Preventing a telefast page from being updated

Press (B) (HOLD). The HOLD symbol » (B) is displayed | || the information line.

Press 🖪 to resume normal teletext reception.

## Using Fastert

Fastext page is broadcast, a colour-coder, menu will appear at the bottom of the screen. The polours of this menu comespond to With Fastext you can access pages with one key stroke. When a the red, green yallow and blue buttons or the Remote

Commender which corresponds to the colour-coded menu. The page will be diliptayed after some seconds. Press the corresponding coloured button on the Remote



Press MENU. The menu will be superimposed in the Interest display. (See Fig. 42).

Substitution of the And press Dis

DETECT WELL Ng. 42

## USER PAGES/PRESET USER PAGES

See page 58 for information about presenting and operating the rear pegas.

## ROEK

The incex will give you arrovery ew of the contents of the teletect and the page numbers.

Orden ⊽ Z and press De

Fg. 43

The North

## TEXT CLEAR

may not be available depending on the Teleman service. Some of the features

SUBTITLES

## REVEAL

Sometimes pages contrain concealed information, each as snawes to a qual. The pressa lobbin less you disclose the information. After their deshores the function, an information line > HEVEAL\_DWOFF, will be displayed. (See Fig. 46). Using △+ or ▽-, select ON to reveal the information or OFF to composal it again. Press 學 to resume normal teletext reception.

Panyas Am ≥ gri

## TIME PAGE

Press OK. An information window will be displayed at the bottom of the page. Using  $\Delta+\sigma r~\nabla-$  select ON and press OK. To select the desired page enter the three digits of the page number (e. g. 303) using the number buttons.



This TV is provided with a menu-guided feletext system. When insolexal is switched on, you can use the menu buildnes to openize the feletext menu. Select ins befeet menu kincrions in the fallswing way:

Using  $\Delta +$  or  $\nabla_{-}$  select the telebrat function you want and press OK. (See Fig. 43).

ø

TOP/BOTTOM/FULL

BONY

For convenient meding of a keletard page, you can enlarge the keletard lasted with the ability was eared up and down the coreen. After taving selected the function an information into Top/Bortony/Full will be displayed. (See Fig. 44). Press 2+for 1 tops to en arge the upper rail. For >Bottom« hosp pressing V., to elarge in lower helf. Press CK for rails to resurre the normal size. These CK for Press © to resume normal releast reception.

Z Top & Jetters DRAMI

Flg. 44

(E)

After rawing selected the tunction, you can watch a TV programme white waithing Let expended believed page to be suptured (The symbol cramps colour) (See Fig. 46).
Press © to view the nequested ragio.

Your lelstext service will inform you'll a TV programme is subtified. After heving sellsched the bunchon the subtifies will be displayed.

Flg. 45

Your taletext service will sirkom you, if a time coded page is available. You may have a page (a.g. an alarm page) alaplayed al a certain time.

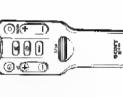
To select the line, emterfour digits for the desired line (e.g. 1800) utility fire number butters. Press MENU. The selected thre is digitally at the top in the life Mand corner. At the requested time, the page will be displayed. Press ® to resume normal tweeters mode.











request: Send «OFF» for the TIME PAGE setting. Focancel the

To central the relyment: Select > Subpage and press OK.

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information are will be displayed. To select the discred suppage, enter four digits using PROGR4,← or the number buttons, (e.g. enter 0002 for the second page of a sequence).

## User Page Bank System

You can store up to 30 pages in the "fidelibral page bank siyelent". In this way you have quick access to the pages you watch frequently.

## Storing pages

There are 5 chanks: (A to 5) for 5 telebact stations, in each bant you can able 8 preferred pages (P1 to P6).

Press @ (if Televext is not on sheady) and MENU to show the TELETEXT MENU display.

Select PRESET USER PAGES with △+ or ∇ – and press OK Selectthe desired bank with  $\Delta$  - or  $\overline{V}$  and pressible. The cursorwill gott the lirst position (2.1) of the preferred pages.

Input he three digits of your lins preferred tage with the number buttons and press OK.

The outsor will go to the second position.

The breadenating Unions use the same

Happad step 4 for the other 5 page numbers you want to present if you do not want to present if you do not want to present all 5 page numbers. Atte having away numbers. Atte having finite that file presenting press OK repayably until the oursor appears beakles the next bank at the left margin.

Select Allocale Bank with  $\Delta +$  or  $\nabla -$  and press OK,

Select the programme position for which you have preset pages with  $\Delta +$  at V- and press OK. (See Fig. 47:

Select the desired bank with  $\Delta+\sigma^*\nabla^{-}$  (Banks A to E are exaltable) and press  $\Delta C$ .

Repeat stape 3 to 8 for the other 4 banks available.

Displaying User Pages

Belest MENU

Select User Pages with Δ+ or ∇− and press OK. A labis of the stored preferred pages will i≡ displayed. (See Fg. 48)

Salara 🖸 🕏 and passage

Select the desired page with  $\Delta+\sigma^*\nabla-$  and press OK. The page will be displayed after some seconds. ä

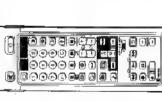
To select the desired page press the respective accounted button while you are in 1Y mode. How the Page number of the selects tage will appear in white at the top in the left-hearded common the 1P except. When the page humber changes account withe 1P except. When the page humber changes account who pages is available. Press the octoured button again You can use the coloured buttors on the Remote Commander to their query ages. Page 1 and 10 feet gages. Page 1 corresponds to the red button, P. 2 to the green one, P. 3 to the yeal or ma and P 4 to the birth button. to display the sage.

This section appleins how to view the video mout picture (of the video source connected to your "Vy, and how to select the output signal using direct access buttons or the menu system. Press © repeatedly it select the input source. The symbol of the selected input source will appear. Selecting input and output To go back to the normal TV picture Press O. Selecting input input modes PRECENT with PRECENT CONTROL OF THE PRECENT C

Ġ



а**че** фффф



Sindeo input through the (44/48) or +34 connector (4-pin connector) Sivideo input through the 1993 connectors (4-pin connector) at the front

Audiavideo Input through the 13-47-34 connector

ф Ф 7 ₫

Audiovided input through EDS and EDS connectors at the front

Sivided Imput through the 🕩 2/1692 or 1632 connector

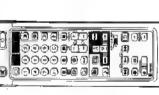
Audiovideo input through the 192432 connector

AudioVideo input through the 1251 connedor

fangle lught

ROB nput through the 🖄 connector

Q (p)



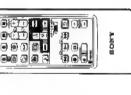
8.55222 8.62888 8.62888

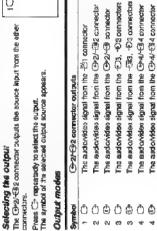


Albeste Bans
Project Legals, Banket Project Legals,
On White Bill A 56 Birty
On Branch A 56 Birty
On Branch C 56 Inty 14, 127

Select V. S. updomission

Flg. 47





## Using AV Preset

The audicivides signed from the Til serial terminal

Using this function you can preset the desired input source (e.g. ゼバ, RGB signal) to the respective Avinput (Avinta) in this way a connected VTR will automatically switch to the RGB signel. Salect the symbol ☐ for »Preset« with △+ or ▽- and

Salect first vinstaliation«, then «AV Preset» with ∆+ or ∇-, and press OK. The AV PFESET menu appears (See Fig. 49).

Select the desired AV input with  $\Delta + ci \nabla - and piess OK.$ 



Flg. 49

8

You can present one bank to 2 different programme postilons.

Select the desired source with  $\Delta_+$  or  $\nabla_-$  and prese CK. For the respective AV inputs you have the following possibilities: AV 3 YC3 or AV AV 4 YC OR AV RG9 or AV

If you want to rame the AV input eleted - Labelis using  $\Delta + cv \nabla - and$  and press QX. Selects a letter or annuber with  $\Delta + cv \nabla - and$  press QX. The next element will be highlighted Select other chereachers in the same way. If you result leaves an element billiant, eacher = and press QX. After having selected table characters, press QX repeatedly. With the oursor appears by the next AV input at the left margin. YC2 or AV

If you want to preset PA\_phus selection for a AV ngut, select PAI\_ownth &+ or Y—and preset OK.

10.04.0. with &+ or Y—and preset OK.

10.04.0. with Y= select + OY— IFAI\_phus chould be selected automatically, or ...Off - ii not. Prese OK.

Repeat stepe 3 to 8 for the other AV inputs.

## Checking and selecting the input and output sources using the menu

You can display the mean to see which figure sources are selected for the TV sorean and PAP screen, and which output source is selected. You can also select them on the menu.

100

Select the symbol rife. for »Videc Connection« with  $\Delta$ + or  $\nabla$ ~ and please DH. The VIDEO CONNECTION menu appears. (See Fig. 50)

You can see which source is selected for the TV and PAP nout and for the and for the output. If you want to select the input and output of this menu, go on to the next step.

Select TV Screen (input source for the TV screen, i. PAPIInput source for the PAP screen), or output (output source) with  $\Delta$ - or V- and press OK. One of the source items changes colour.

Select the desiral source with  $\Delta_1$  or  $\nabla_+$ . For details about each source, see the table on page 60.

Press DK. The selected source is confirmed, and the cursor appears.

Report steps 2 to 4 to select the source for other ripute or outputs.

## Remote Control of Other

You can use the TV Ramote Commander to control other Sony remote control other Sony remote controlled video opportune. The buttons for video opportune have seen factory sell to control most of Sony video equipment, such as: Bett, form or VHS YCRs or video disc Sony Equipment

Tuning the Pernote Commender to the equipment

Set he VTR 1/2/3 MDP selector according to the equipment you wan: to control:

VTF 1 Bets YCR

VTR 2 Bmm VCR

MDP: Video disc player VTP 3 VHS VCP

Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a DOMMAND MODE selector; set this selector to the same position as the VTR 1/2/3 MDP selector or the TV Remote Commender.

if the equipment does not have a certain function, the corresponding button on the Remote Commender will not operate.

ā



## Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark) or sound	- Plug the "Vin,
	<ul> <li>Press © on the TV. (if © incleator is on press C or a programms number on the Remote Commander.)</li> </ul>
	<ul> <li>Chack the agrial connection.</li> </ul>
	<ul> <li>Chack if the selected video source is on.</li> </ul>
	<ul> <li>"um the "Vior for 3 or 4 seconds and then turn it on ageth using ®.</li> </ul>
Poor or an picture (screen is dark), but good sound	<ul> <li>Press</li></ul>
Poor picture quality when waxthing an RGB vittee source	• Press & inpeatedly to seed 💥
Poor picture quality of PAP somen	- Pites (3).
Good picture but poor or no sound	Press △↑.  • Fress △↑.  • Fress ← Catabalayedor the sorreon, press ⊄.  • Check the compectors of the budspeakers.
No calcur for colour programmes	<ul> <li>Prese ■ to enter the PICTLRE CONTROL manu, salect RESET, then press OK.</li> </ul>
Remote Commander does not function.	Replace batteries.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

## Auto PAL plus

PAL plus is a new broadcasting eyetem with the following

Backward compatibility to the P.A., standard

Broadcasting in 16:9 'ormat

Improved video signal quality (The resolution is 576 lings against 432 lines in conventional 16:9 programmes)

If you preset AUTO PAL plus to CN and the PAL blus aginal a belighter whited, this screen mode automately changes from any mode to the PAL plus mode (See page 52), When the PAL plus programme is limited. It is sore a mode automatically returns to "previous mode.

Press MENU to display the main menu.

Selectthe symbol  $\square$  for "Sorsen Mode" with  $\Delta$  " or  $\nabla$  – and press DK. The SCREEN MODE menu appears.

Select "Auto Format\* with  $\Delta +$  or  $\nabla -$  and press OK.

Select ON prOFF with  $\Delta +$  or  $\nabla -$  and press OK.

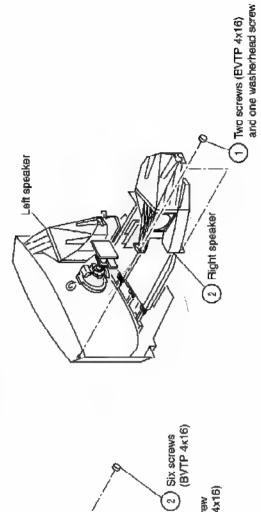


## **SECTION 2**

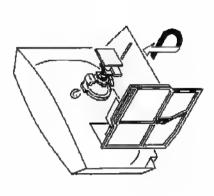
2-1. REAR COVER REMOVAL

DISASSEMBLY

2-2. SPEAKER REMOVAL

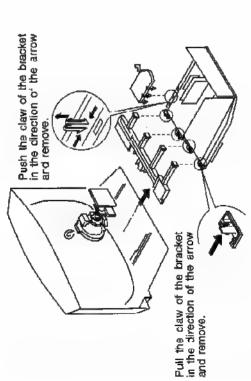


2-4. SERVICE POSITION





(1) One screw (BVTP 4x16)

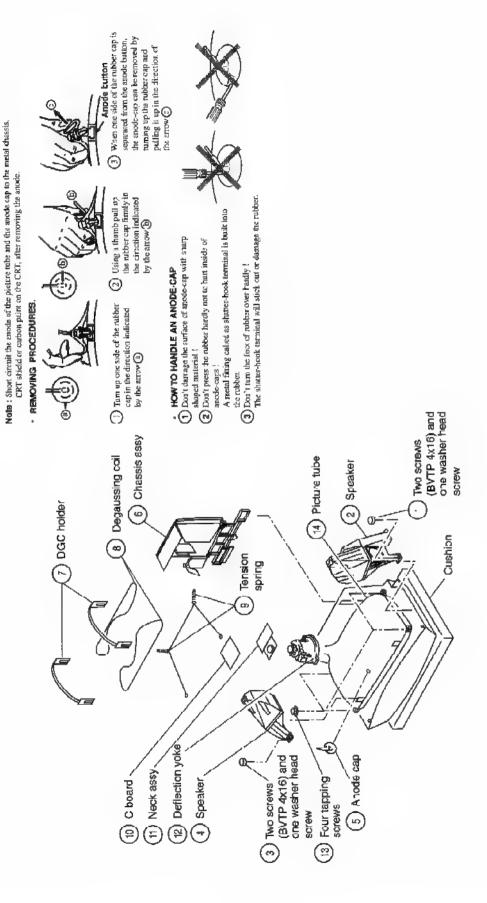


3) Rear cover

- Shield case C Q board B1 board 2-6. B1 AND Q BOARD REMOVAL (KV-32WS3A, D, E, K, R and U only) 7 43/ Push the claw of the P.C.B. supporter in the direction of the arrow and remove. P.C.B. supporter Pull the claw of the bracket in the direction of the arrow and remove. J board G 20ard CN0722 2-5. G AND J BOARD REMOVAL MAT Push the claw of the bracket in the direction of the arrow and remove. CN0622 / CN0007 Push the claw of the bracket in the cirection of the arrow and remove. 2-7. WIRE DRESSING F1 board G board 2

# 2-8. PICTURETUBE REMOVAL

· REMOVAL OF ANODE-CAP



## SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustment with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches as follows.

Contrast ...... normal Brightness ...... normal

- · Carry out the following adjustments in this order:
- 3-1. Beam landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

Note: Testing equipment required.

- 1. Colour bar/pattern generator
- 2. Degausser
- 3. Vector scope

## 3-1, BEAM LANDING

## Preparation:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

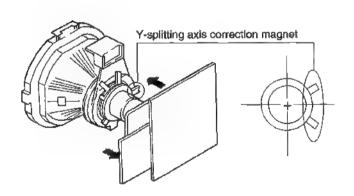
## (1) Adjustment of Correction Magnet for Y-Splitting Axis

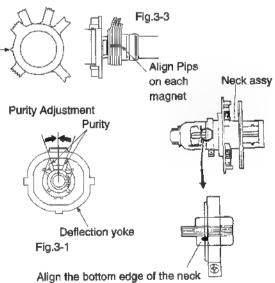
- 1. Input a crosshatch signal from the pattern generator.
- Picture control is minimum and brightness control is still normal.
- 3. Position the neck assy as shown in Fig. 3-2.
- Move the deflection yoke forward to touch the CRT and it stands up rightly.
- Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnets on the neck assy.
- Return the deflection yoke to its original position.

## (2) Landing

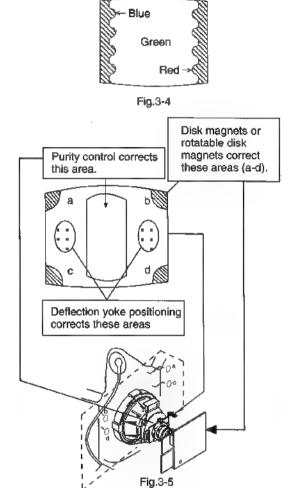
**Note:** Before carrying out the following adjustments adjust the magnets as indicated below (See Fig.3-3).

- Input an all-white signal from the pattern generator.
   Maximize the picture setting and adjust the brightness setting.
- 2. Rough-adjust the focus and horizontal convergence.
- Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig. 3-1)
- 4. Switch from the all-white pattern to an all-green pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig. 3-4)
- Move the deflection yoke forward and adjust so that entire screen becomes green.
- Switch the raster signal to red, then to blue and verify the landing condition.
- When the position of the deflection yoke has been determined, fasten the deflection yoke with the screw.
- If the beam does not land correctly in all the corners, use magnets to correct it. (See Fig. 3-5)





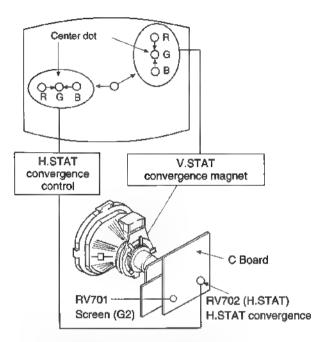
Align the bottom edge of the neck assy with the G3 hole center.



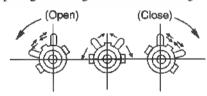
## 3-2. CONVERGENCE

## (1) Screen center convergence (Static convergence)

- Input a dot signal from the pattern generator. Normalize the picture setting.
- (Moving horizontally), adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the center of screen.
- (Moving vertically), adjust the V.STAT magnet so that the vertical red, green and blue points coincide at the center of screen.



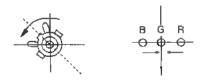
 If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
 (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



- Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- ① By opening or closing the V.STAT magnet, the red, green and blue points move as shown below



②By rotating the V. STAT magnet counterclockwise, the red, green and blue dots move as shown below.

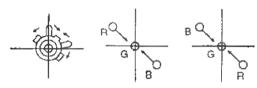


②By rotating the V.STAT magnet clockwise, the red, green and blue dots move as shown below.

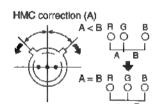


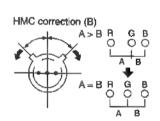


 By opening or closing the V.STAT magnet, the red, green and blue dots move as shown below.

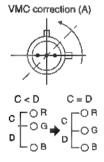


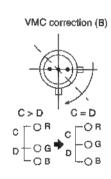
- If the blue dot does not coincide with the red and green points, correct the points by using the BMC (Hexapole) magnet.
- ⑤ Correction for HMC (horizontal mis-convergence) and VMC (vertical mis-convergence) by using the BMC (Hexapole) magnet.
- ①HMC correction by BMC (Hexapole) magnet and movement of the electronic beam.





②VMC correction by BMC (Hexapole) magnet and movement of the electronic beam.





## Layout of each control

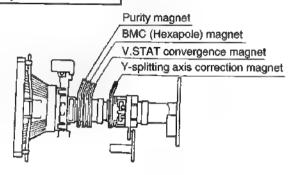
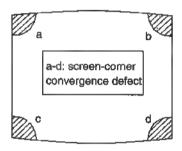
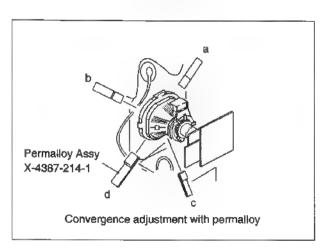


Fig.3-5

 If you are unable to adjust the corner convergence properly, correct them with the use of permalloys.



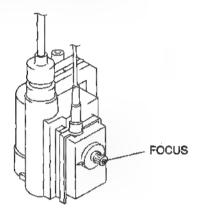




## 3-3. Focus

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control on the flyback transformer for the best focus at the center of the screen.
   Bring only the center area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust

the focus to optimize the screen uniformly.



## 3-4. Screen (G2), White balance (Adjustment in the service mode with remote commander)

## G2 adjustment (RV702)

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 170V DC from an external power supply to the R, G and E cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control RV701 [SCREEN] on the C board to the point just before the return lines disappear.

## White balance adjustment

- 1. Receive an all-white signal.
- Enter into the Service Mode by pressing 'TEST', 'TEST' and '01' on the Service Commander.
- 3. Select 'CRT Driver' from the on screen menu display and press OK].
- 4. The 'CRT Driver CXA1840' menu will appear on screen.

## CRT Driver CXA 1840

Crt I	Oriver	CXA1840
21	R DRIVE	41
22	G DRIVE	adj
23	B DRIVE	adj
24	R CUT-OFF	8
25	R C	0
26	G CUT-OFF	adj
27	GC	0
28	■ CUT-OFF	adj
29	вс	0
30	AFC MASK	٥
31	DRIVE LVL	52
32	SUB BRT	32
33	H SWEEP SW	on
34	SKEW D	off
35	OUT DC	0

- 5. Set picture to MAX.
- 6. Set the 'R DRIVE' to 41.
- Adjust the 'G DRIVE' and 'B DRIVE' with the Language buttons so that the white balance becomes optimum.
- 8. Press the OK button to write the data for each item.
- 9. Set picture to MIN.
- 11. Press the OK button to write the data for each item.

## SECTION 4 CIRCUIT ADJUSTMENTS

## 4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander, RM-838.

### **HOW TO ENTER INTO SERVICE MODE**

 Turn on the main power switch of the set while pressing the + (plus) and - (minus) buttons on the customer front panel.

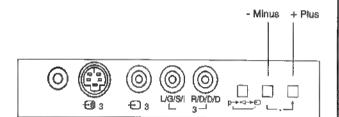
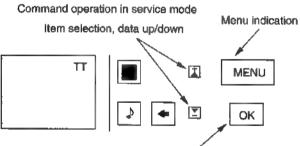


Fig. 4-1

2. "TT" will appear on the upper right corner of the screen.



Flg. 4-2

Fig. 4-3 Selection completion, data writen-in

 Press "Test" "Test" and 01 on the commander to get the menu on screen.

AE V7-62	AE-3	08/06/95
Init TV		
PIP Adjust		
Adjustments		
Video Contr		
CRT Driver		
Dynamic Conv		
Video Proc		
PIP		
PIP Dynamic		
Aspect / Field		
PAP		
SRC		
TDA6812		
PALPLUS		
TDA9160		
TDA9145		

- 5. Press the OK button to proceed to the next menu.
- 7. The Menu as indicated in Fig 4-5 will appear on the screen.

	CRT Driver	CXA1640
1	V POS	adj
2	V SIZE	adj
3	V LIN BAL	adj
4	V LIN	adj
5	V SCROLL	127
6	V ASP PAP	2
7	H POS	adj
8	H SIZE	adj
9	H PIN CUSH	adj
10	H TILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5
	-	Back OK Select

Fig. 4-4

- Press the button to move > to the adjustment item and press the OK button.
- 9. Press the ▲ and buttons to change the data in order to comply with each standard.
- 10. Press the OK button to write data into memory.
- Turn off the power to quit the service mode when adjustments have been completed.

## CXA1839 (VIDEO CONT)

Item No	Adjustment item	Data Amount
1	SUB BRT	
	SUB COL1	8
3	SUB CONT1	8
4	PIG	53
5	HUE	31
6	COL	31
7	BRT	31
8	SHP	31
9	SUB HUE	7
10	D.COIL	off
11	SHP LIM	off
12	AGE WHT	off
13	R-Y/R	13
14	R-Y/B	15
15	G-Y/R	7
16	G-Y/B	5
17	RGB LEV2	
18	SUB SHP	3
19	SUB FQ	1
20	PRE/OVER	-
21	NR LEVEL	1
22	DC TRAN	0
23	DYN PIC	1
24	CEC LEVEL	A
25	VM LEVEL	2
26	ABL MODE	1
27	DYN ABL	off
28	Y SYM SW	off
29	AGE BLK	off

## CXD2035 (ASPECT)

Item No	Adjustment item	Data Amount
1	COMPRESS	7
2	FRAME WID	5

## CXD2030 (VIDEO PROCESSOR)

Item No	Adjustment item	Data Amount
1	DNR	on
2	DNR VALUE	5
3	TA SYN CLP	16
4	TB BGP	50
5	TD CLP	25
ı	FOTO CD SW	off
7	BLK PORCH	16
8	NT TD BGP	25
9	PAL TD BGP	25
10	N.SECAM TB	50
11	SECAM TB	50
12	358 NR LVL	3
13	443 NR LVL	5

## CXD2031 (PAP)

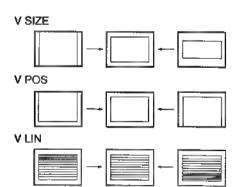
Item No	Adjustment item	Data Amount
1	M.PH.WR.ST	45
2	S.PH.WR.ST	34
3	M.RD. START	40
4	BRT SUB	8

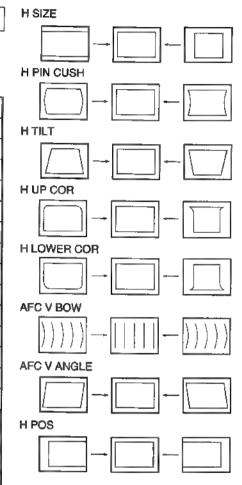
Typical Value (OSD based) when receiving PAL Philips pattern.

## **DEFLECTION SYSTEM ADJUSTMENT**

- Enter into the service mode and select 'CRT Driver'. The 'CRT Driver CXA1840' adjustment menu will be displayed.
- 2. Select and adjust each item in order to get an optimum image.

Item No	Adjustment item	Data Amount
1	V POS	adj
2	V SIZE	adij
	V LIN BAL	adj
4	V LIN	adj
. 5	V SCROLL	127
6	V ASP PAP	2
7	H PO\$	adj
8	H SIZE	adj
9	H PIN CUSH	adij
10	HTILT	adj
11	H UP COR	adj
12	H LOW COR	adj
13	AFC V BOW	adj
14	AFC V ANGLE	adj
15	V COMP	5
16	H COMP	0
17	WV CENT RF	144
18	WV AREA RF	36
19	W CENT VCR	160
20	W AREA VCR	20





3. Press OK button to write the data.

If the menu display prevents viewing the screen while carrying out the adjustments, it can be removed by pressing  $\mathbf{m}$  on the remote commander. Pressing  $\mathbf{m}$  once again will restore the menu on screen.

### 4-2. VOLUME ELECTRICAL ADJUSTMENTS

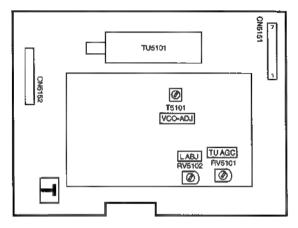


Fig. 4-5 - T Board Component Side -

### iF Coli Adjustments (T5101) A, E, D, E, K and L models

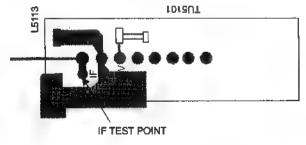
- 1. Input a 38.9Mhz signal to the IF testpoint on the T-Board.
- 2. Receive a channel so that the IC5103 is selected for system B/G.
- Measure the voltage at the AFT testpoint (Pin 7 of CN5151) and adjust T5101 to obtain 2.5V+/-0.2V.

## IF Coil Adjustment (T5101) UK models only.

- 1. Input a 39.5Mhz signal to the IF testpoint on the T-Board.
- 2. Receive a channel so that the IC5103 is selected for system I.
- Measure the voltage at the AFT testpoint (Pin 7 of CN5151) and adjust T5101 to obtain 2.5V+/-0.2V.

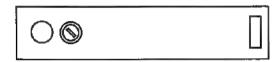
## L Band 1 Adjustment (RV5102) for B models only

- 1. Input a 34.1Mhz signal to the IF testpoint on the T-Board.
- Receive a channel so that the IC5103 is selected for (System L Band 1).
- Measure the voltage at the AFT testpoint (Pin 7 of CN5151) and adjust T5102 to obtain 2.5V+/-0.2V.



Flg. 4-6

## AGC Adjustment (IF Block)



- IF Block top side -

Flg. 4-7

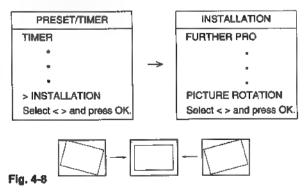
- 1. Receive an off-air signal.
- Adjust the AGC VR so that there is no snow noise and cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

### **Sub Brightness Adjustment**

- 1. Input a Phillips pattern.
- 2. Select 'RESET' from the menu to normalize the set.
- 3. Set the CONTRAST to minimum.
- Press "Test" "Test" and 01 on the remote commander.
- Adjust the BRIGHTNESS with the +/- buttons on the remote commander after selection of 'Sub Bright' so that the 0 IRE section of the gray scale is completely cut off and the 20 IRE section is only just visible on the screen.
- 6. Press 'MENU' and '0' twice to release Test mode 2.
- 7. Select 'RESET' from the menu to normalize the set.

### **Picture Rotation Adjustment**

- 1. Input a PAL color bar signal.
- Press the MENU button on the commander to get the menu on screen.



## 4-3. TEST MODE 2:

Is available by pressing the Test button twice, OSD "TT" appears. The functions described below are available by pressing the two numbers. To release Test Mode 2, press 0, 10, 20 ... twice or switch the TV into Standby Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into "TT" mode.

In TT mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed!!

00	Switch back to normal mode - TT mode off
01	Switch service menu on
02	Direct access to Noise reduction
03	Set Volume to 30%
04	Service Menu In "Service Mode"
05	Service Menu in "Production Mode"
06	Set Volume ■ 80%
07	Aging mode
08	Shipping condition (Production request) To ensure that all TV sets leave the Production with the same pressettings. Programme 1 is selected, AV IN is set to AV1, AV Out is set to TV Out, Volume and HP Volume is set to 35%, Resolution is set to high, Format is set to 4:3, Pip is set to Top Left position, Pip is switched off, TT mode is switched off, all analogue values are set to the reset setting, space Sound - Equalizer - Loudness = off, DNR off, Dig. Mode = 1, Wide Zoom Mode for 28W models, Menu Language Reset, Prog. Pointer table reset Non Interface is allowed in Text mode.
09	Language reset. With this function the "Language Byte" in the NVM (Bank 0AAH Address 0DCH) is erased (set to 0FFH). The Language Menu appears now automatically when the TV set is switched ON as long as no new language is selected.
10	The TT number will be deleted. All numbers with 0 (10, 20, 30, 40, 50, 60, 70, 80, 90) will reset the TT number. A new number can be selected. TT display is kept
11	Direct access to Balance. With Cursor Up/Down the Balance can be controlled (w/o OSD, Menu display)
12	Direct access to Hue. With Cursor Up/Down the Hue can be controlled (w/o OSD, Menu display)
13	Dispaly of Software Version and TV set configuration
14	Production Info Display
15	Read factory setting from ROM (Program code) and store this data at Last Power Memory data location (The previous last power memory data is overwritten) AE3 has 3 packages of Analogue data:  1. Last Power memory data. This data is sent continiously to the corresponding IC's (TDA1839, SC, TDA6812) with this data the TV picture/sound appears.  2. Reset data. By presssing "Reset" in the menu this data is transfered from Reset Data location to the Last Power data location in the NVM.  That means the Last Power Memory Data is overwritten by the Reset data last Power memory and Reset data is now the same.  3. Factory fixed data. Fixed data is held in the ROM code of the micro processor (ROM can't be changed)

	s not displayed!
16	Save actual Last Power Memory data at Reset Data location )The previous Reset data is overwritten)
15/16	With these two functions, it is possible to preset user defined Reset values (just TT16) or to preset factory defined Reset values (first TT15 then TT16)
17	This function presets the Labels for the AV sources: AV1, RGB, AV2, YC2, AV3, YC3, AV4, YC4.
18	Text possible On/Off selection of Text (toggle function)
19	Direct access to Stereo Separation With cursor Up/Down the Stereo separation can be adjusted (w/o OSD, Menu display)
20	see TT10
21	Picture Rotation automatic function : (-4) -> (+4) -> 0
22	Operating Timer and Error Monitor display
23	Direct access to Sub Brightness Adjustment With cursor Up/Down the Sub BRT can be adjusted (w/o OSD, Menu display)
24	Direct access to Sub Color. With Cursor Up/Down the Sub Color can be adjusted.
25	Status menu display (SubController, CXA1840 Status, Main Controller.
26	Text Character selection (Char set 06 ->West Europe)
27	Text Character selection (Char set 38 ->East Europe)
28	Text Character selection (Char set 40 ->West Europe) US English
29	Text Character selection (Char set 55 -> West Europe) Turkish
30	see TT10
31	Text Character selection Char set Russian
32	Text Character selection Char set Greek
33	Programme catching test (Programme catching can be released by "Menu command")
34	Multi PIP adjustment. Direct access to 3.58 horizontal write position. With Cursor Up/Down the 3.58 H write Pos can be adjusted (w/o OSD, Menu display).
35	Multi PIP adjustment. Direct access to 4.43 horizontal write position. With Cursor Up/Down the 4.43 H write Pos can be adjusted (w/o OSD, Menu display).
36	Mtx Register 112 = intern display clock
37	Mtx Register 112 = extern display clock

	<u> </u>
38	Automatic selection of Screen Modes: (not for S (4:3) Models. 4:3 -> Zoom -> Zoom up -> Zoom Center -> Zoom down -> Zoom Center -> smart -> (if Pal+ signal) PALPLUS -> wide.
39	Reset Programme Table (NVM Bank 0ACH) The sorting of programmes in "Programme Sorting Menu" is reset.
40	see TT10
41	no function
42	no function
43	no function
44	no function
45	Set NVM to Protect mode (Bank 0AEH Adr. 0FFH write with 0)
4 <del>6</del>	IR Channel Pressetting Mode. The channel pressetting can be done by a Special IR transmitter  Sequence: TT46 -> PR Number select dispaly appears Select Prog. No from where the channel shall be stored. > Now TV is waiting for IR sequence <> If no IR transmission starts TT46 is released after 20 secs < !Note: When TT46 is active, any transmission will be interpreted as PROG data I
47	Direct access to Headphone Source Selection (Production use)
48	Direct access to AGC Adjustment (PWM) output.
49	The EEPROM Testbyte is erased. After Power OFF -> ON the complete EEPROM data (exept channel tables) is overwritten. EEPROM Protection byte is set to 0 protection mode
50	see TT10
51	Strobo mode is activated.
100	no function.
₩3	Photo mode test (Photo mode can be released by "Menu- command").
54	Direct access to Velocity Modulation VM (Production use)
55	MTX Silcer Control "Low Pass" (only Sys L)
56	MTX Slicer Control "No Compensation"
57	Megatext Service Menu ON
	MTX Small Framing Code Window
58	
59	MTX Wide Framing Code Window

61	Set Dolby default values.
62	ACI disable.
63	ACI enable.
64	Reset all iIC Slave commands (Production use)
65	Reset stored error codes in NVM.
66	Reset for PALplus local controller and Sub Controller.
67	Direct access to Headphone Volume. With cursor Up/Down the Headphone Volume can be controlled (w/o OSD, menu display) (Production use)
68	ignore errors.
69	reset ignore errors (show errors)
70	see TT10
71	Picture Rotation Function On/Off toggle.
72	Dolby register setting menu.
73	Megatext RGB textlevel one step decreased (max 3 steps down starting from E0h) (Production use)
74	Megatext RGB textlevel one step decreased (max 1 steps down starting from E0h) (Production use)
75	reserved
76	CXD 2030 Default data setting.
77	CXD 2031 Default data setting
78	CXD 2032 Default data setting
79	CXD 2033 Default data setting
80	see TT10
81	CXD 2033D Default data setting
82	CXD 2035 Default data setting
83	CXA 1526 Default data setting
84	CXA 1939 Default data setting
85	CXA 1840 Default data setting
86	TDA 9145 Default data setting
87	TDA 9160 Default data setting
88	no function
89	no function
90	see TT10

## 4-4. ERROR MONITOR AND DETECTION

In the menu 'Error Monitor', information about the error status of the set is displayed.

- Actual operating time
- Last five errors which are stored in the NVM.
- Actual error.

Error Monitor	
Operating Time	
000355 h 35min	
Saved Errors	
1. 40h⇒D1 Board	
2 60h=Q Board	
3. 70h=T Board	
4. 00h=no error occured	
5. 00h=no error occured	
Actual Error	
-> 00h=no error occured	
to reset the NVM press 'TT' 65	

Additionally the Error Reader can be connected to the service connector to read out the actual errors.

The device check itself is active while the TV set is running out of stand-by mode. The devices are checked by sending an |2C start sequence and if there is no acknowledgement back from the devices it is regarded as an error. Each device is checked three times and if at every attempt there is no reply from the relevant device an error is given. To read the error codes press 'TT' followed by 22 on the commander to view the Error Monitor menu,

To reset the error codes in the NVM press 'TT' followed by 65 on the remote commander.

## **TABLE OF ERROR CODES**

Error Code	Device	Description	Board
000h	no device	no error has occured	
001h	IIC 1 and IIC ■	IIC 1 and IIC 2 blockaded	-
002h	IIC 1	IIC1 is blockaded	-
003h	IIC 2	IIC 2 is blockaded	•
010h	A Board	A Board is defective	-
020h	A1 Board	A1 Board is defective	-
030h	BX-Board (B,B1,B2)	B, B1, or 82 Board is defective	_
040h	D1 Board	D1 Board defect	-
0 <b>50</b> h	J Board	J Board defect	-

Error Code	Device	Description	Board
06 <b>0</b> h	Q Board	Q Board defect	-
0 <b>7</b> 0h	T Board	T Board defect	-
011h	CXP85332	No response from the Subcontroller	Α
012h	ST24C16	No response from the NVM	A
013h	SDA5273	No response from the Megatext IC	A
014h	TDA6812	No response from the Sound Processor	A
015h	SAA7283	No response from the Nicam Decoder	A
016h	UV916H	No response from the Main Tuner	Α
017h	CXA1839Q	No response from the Video Controller	Α
018h	CXA1840	No response from the CRT Driver	A
019h	RGB8443	No response from RGB/YUV	A
021h	TDA6822	Audio processor of the Center and Surround channel in the case of Dolby Prologic does not respond.	A1
022h	TDA7317	No response from the Equalizer.	A1
031h	CXD2030R	No response from the Digital Video Processor.	B/B1
032h	CXD2031R	No response from the Twin Picture IC.	B1
033h	CXD2032R	No response from the Digital Sampling Rate Converter.	B/81
034h	CXD2033R	No response from the Picture III Picture IC.	В
035h	CXD2035R	No response from the Aspect Converter.	B/B1
036h	TDA9160	No response from the Chroma Decoder.	B/B1
037h	TDA9145	No response from the Chroma Decoder (on French models only.)	B2
041h	CXA1526	No response from the Convergence IC.	D1
051h	CXA1855	No response from the AV-Switch	J
061h	83C65202	No response from the Local Controller.	Q
071h	UV1316/TSA5526	No response from the Subtuner.	Т
072h	CXA1875	No response from the Port Expander.	т

## 4-5. LED Error Blinking

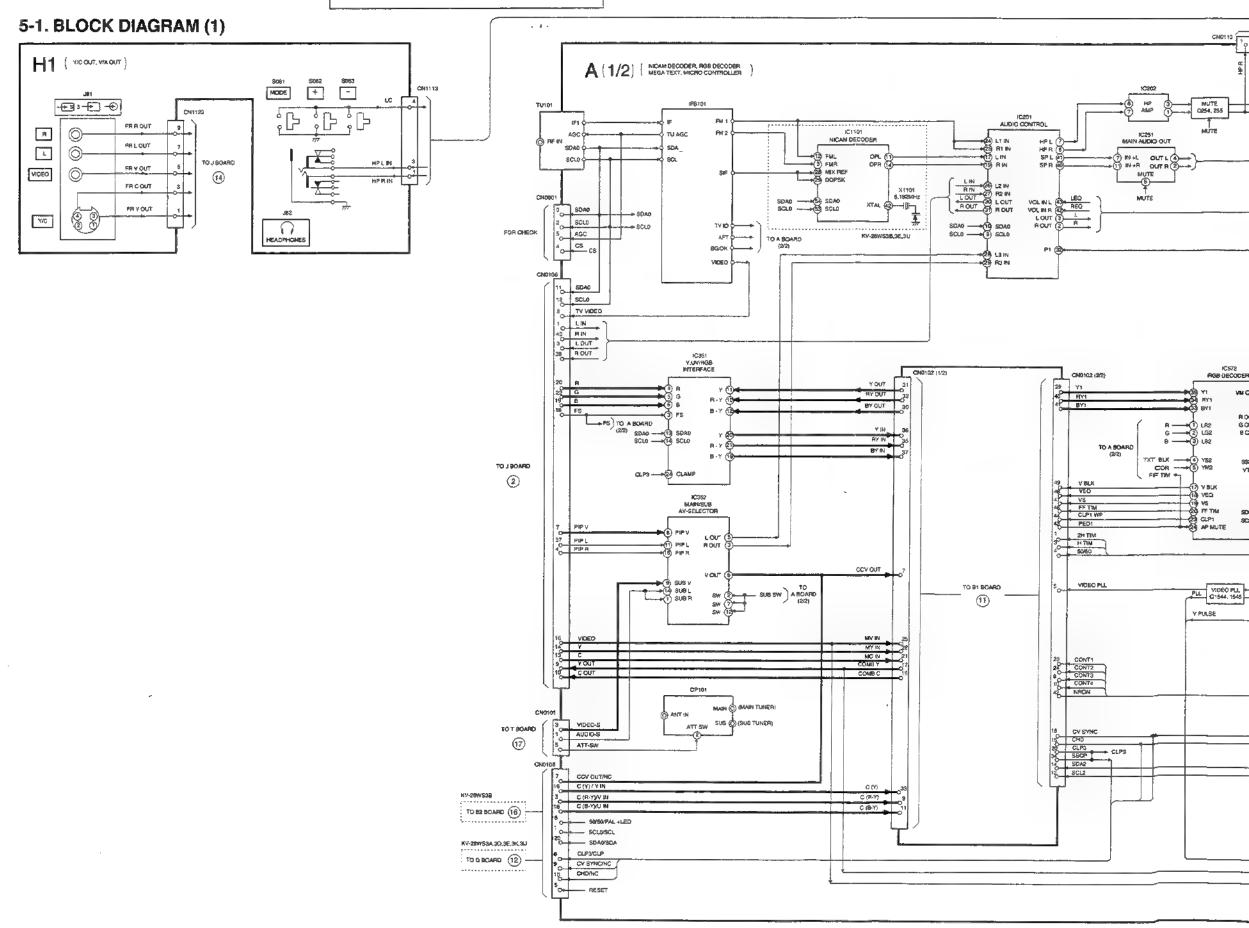
In addition to the Error Monitor facility there is an additional error indicator which indicates the most important errors also in the case of IIC error and Megatext error in opposition to the error monitor.

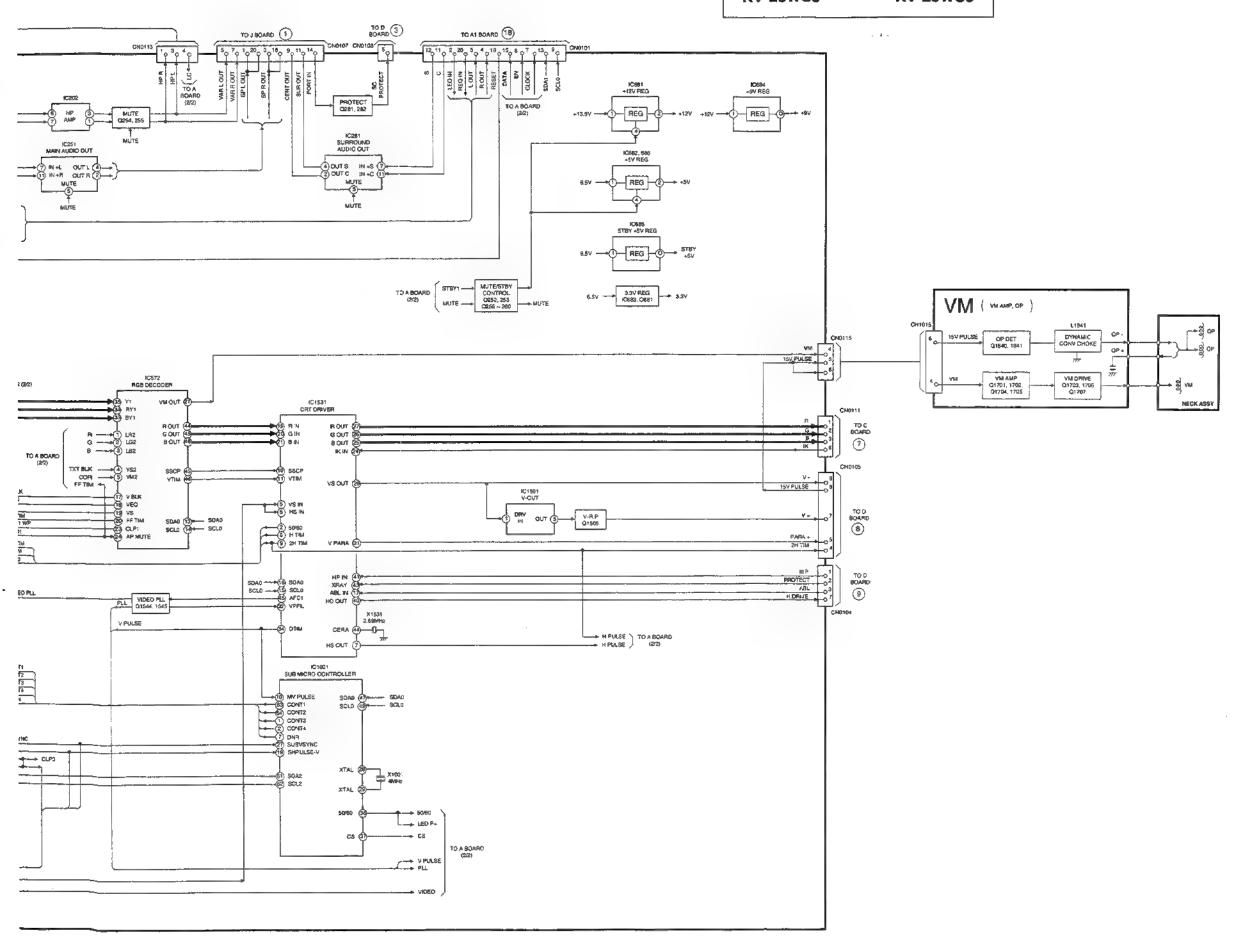
The error is recorded by counting the number of times that LED B blinks. This facility also works while in stand-by mode.

## LED Error Code.

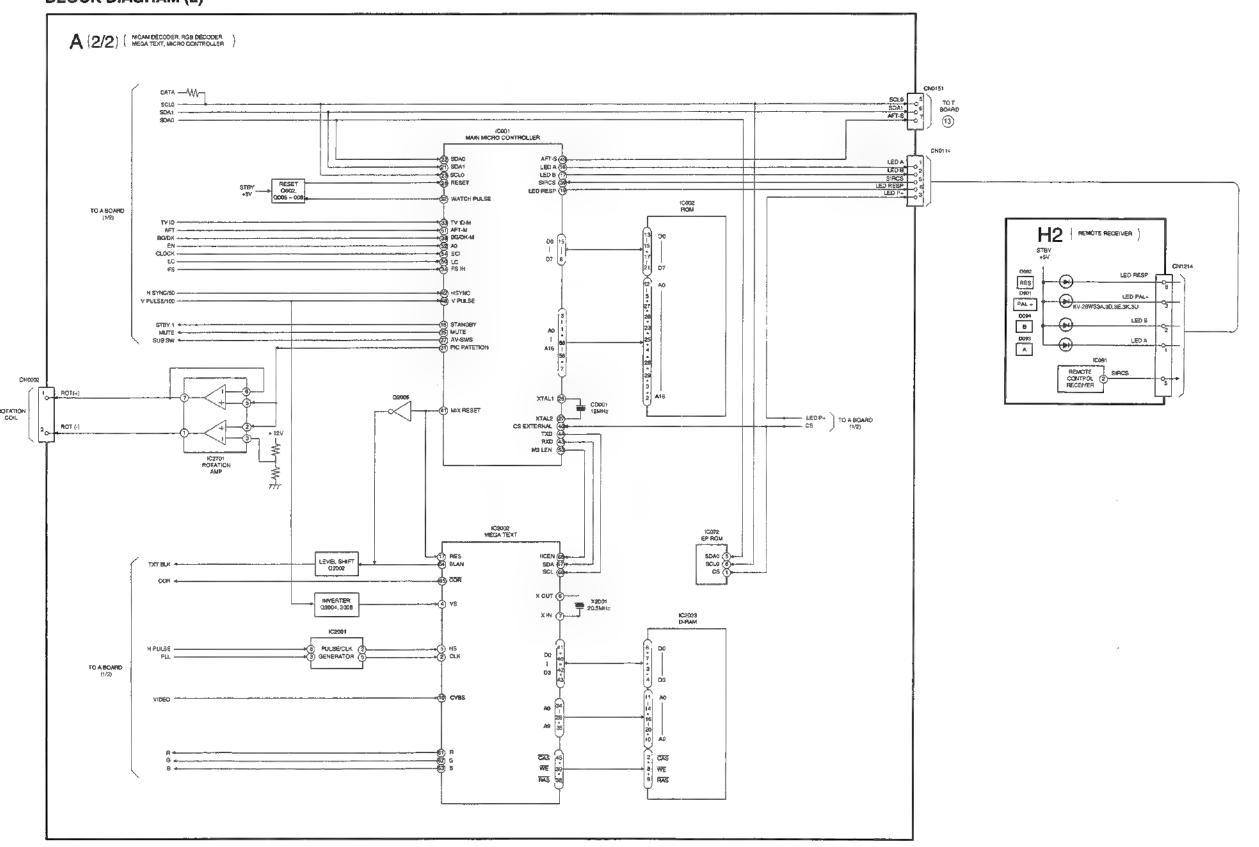
Error	number of LED B blinking	Description	Board
0	1	general IIC error	-
1	2	ST24C16 NVM error	Α
2	3	CXP85332 subcontroller error	Α
3	4	CXD2030R error of Digital Video Processor	B/B1
4	5	CXD2032R error of Digital Sampling Rate Converter	B/B1
5	6	CXD2035R error of Aspect Converter	B/B1
6	7	"TDA1839 error of Video Controller	Α
7		TDA1840 error of CRT Driver	Α
8	9	CXA1855 error of AV switch	J
9	11	SDA5273 error of Megatext	Α
10	12	TDA6812 error of Sound Processor	Α
11	16	V-Protection (In this case the TV set is switched of immediately)	-

KV-28WS3 KV-28WS3





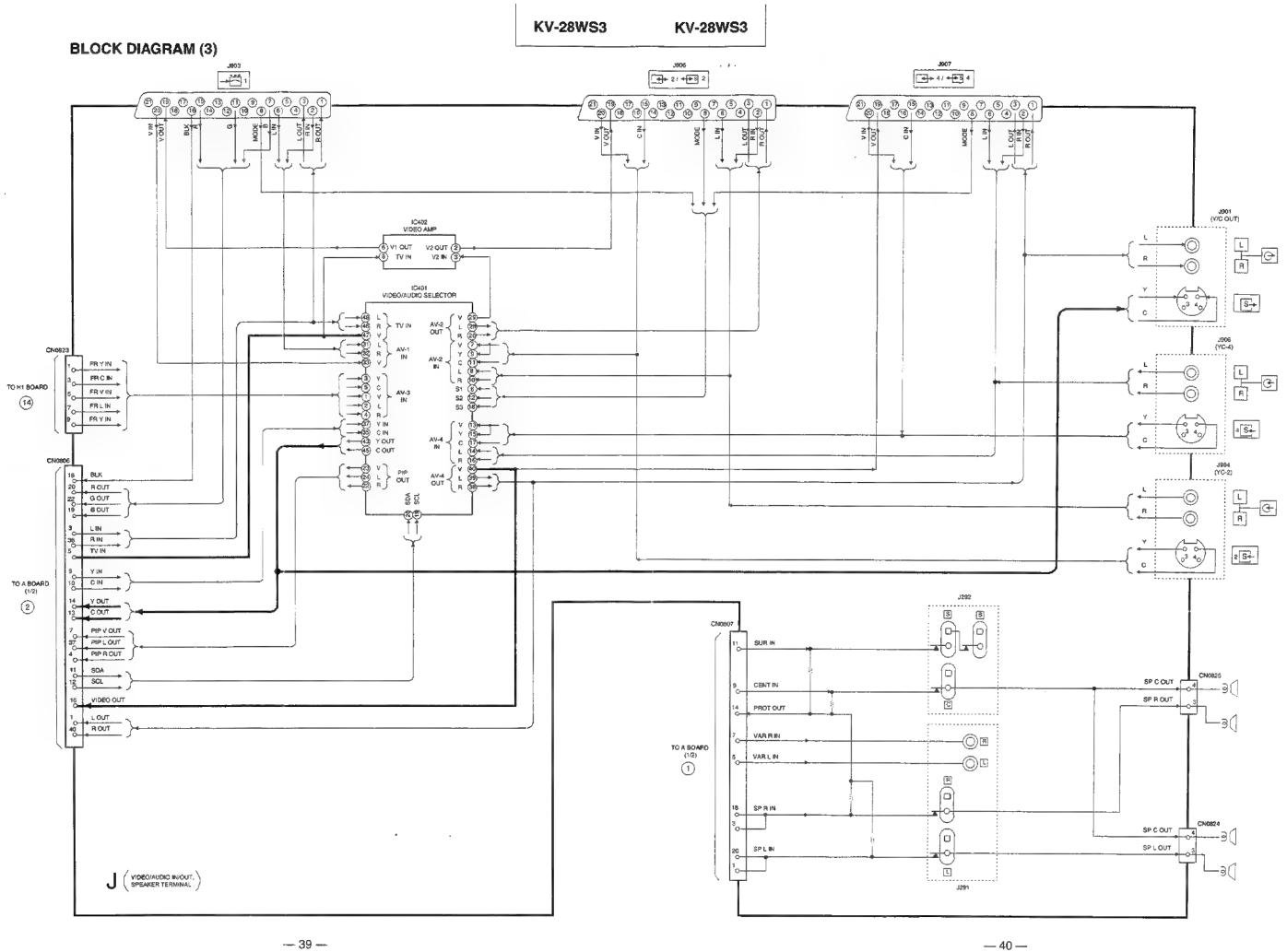
## **BLOCK DIAGRAM (2)**

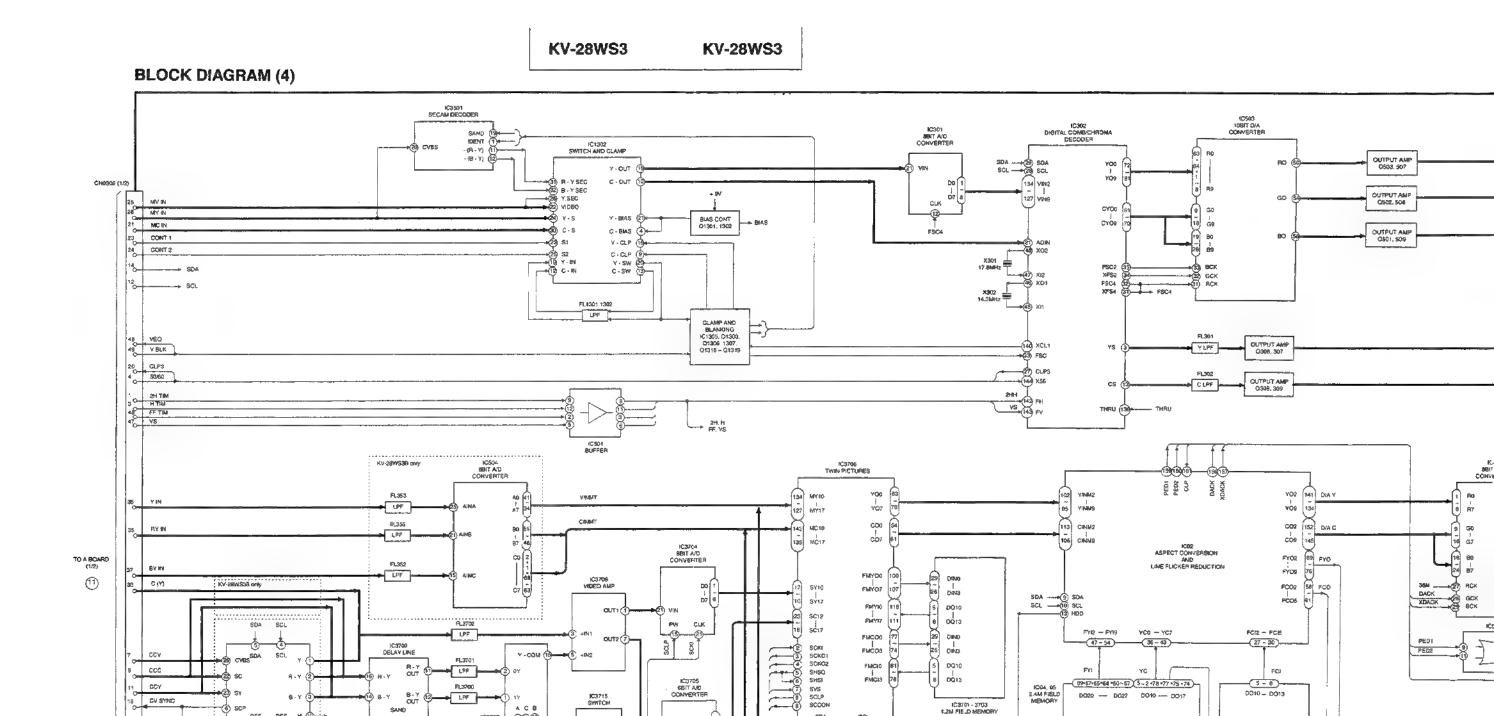


TO A BOARD
(1/2)

(2)

TO H1 BOARD





CONT

QLК

B1 ( DIGITAL COMB. DIGITAL NOISE REQUCER. )

PCB IN

IC3714 PHASE COMPARATOR CLOCK GEN 103710, 3712 D#NO - D#N3 DO20 -- DO23

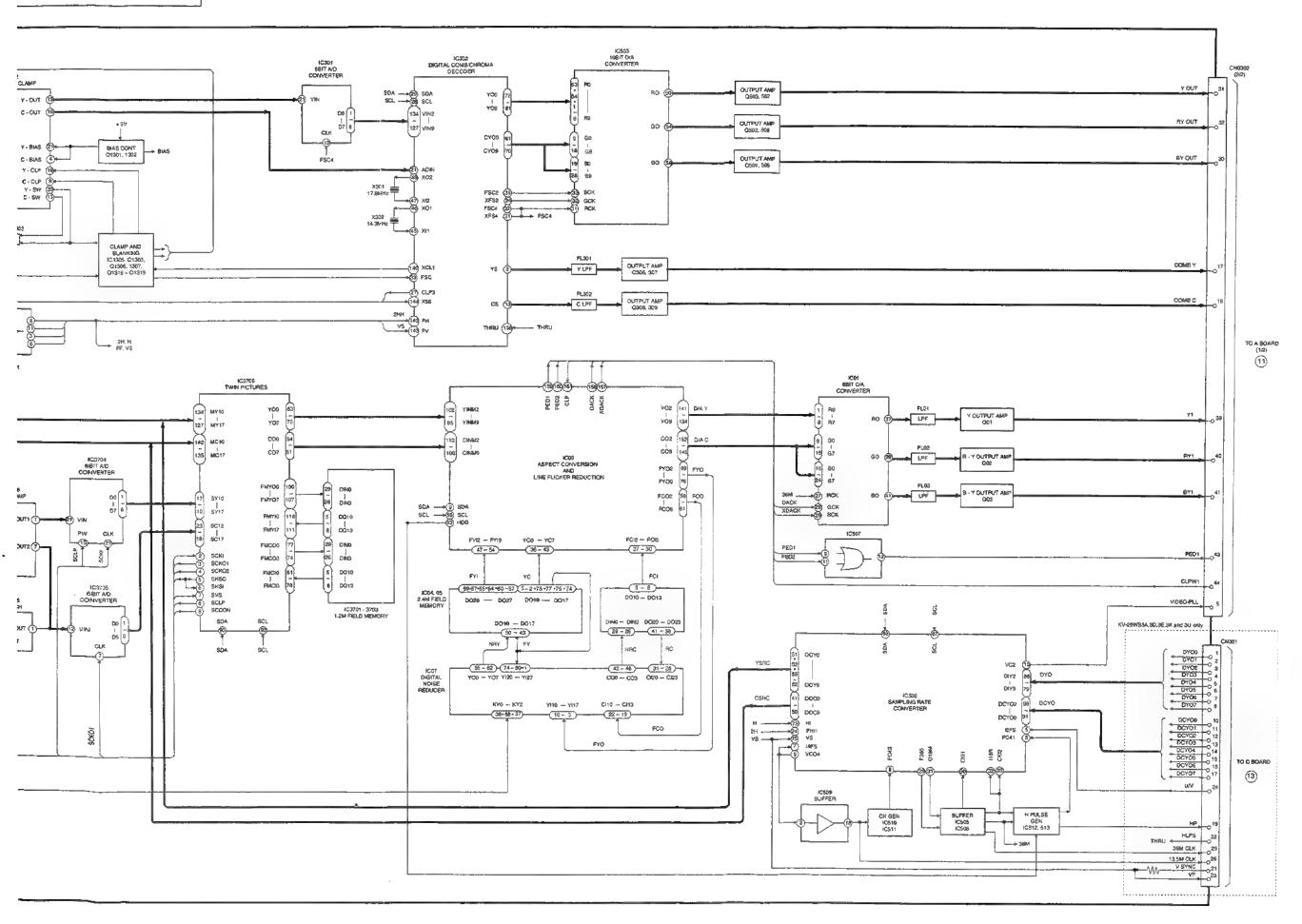
(43 - 46) (31 - 26) COO - CO3 CI20 - CI23

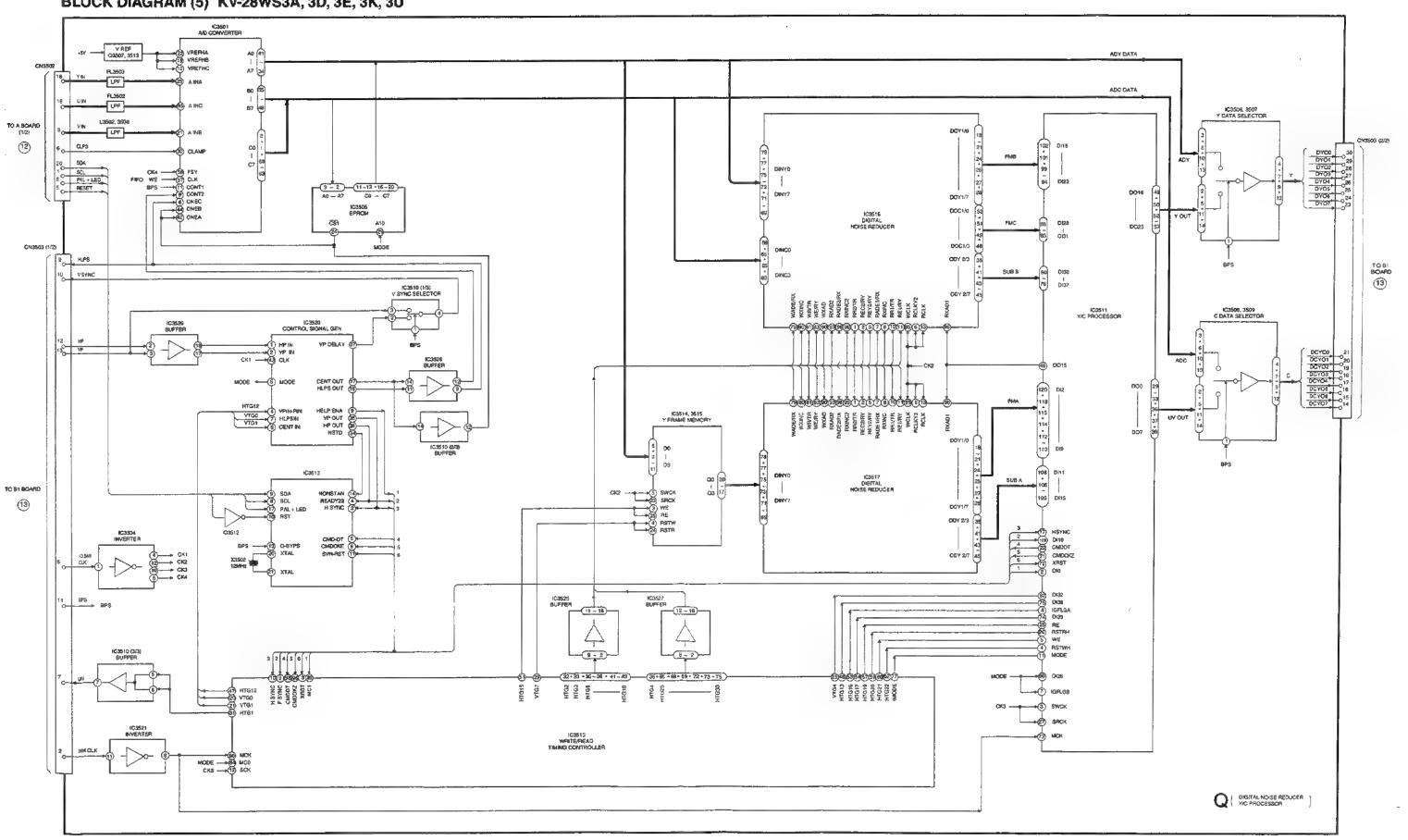
CD0 - CD3

KY0 - KY2

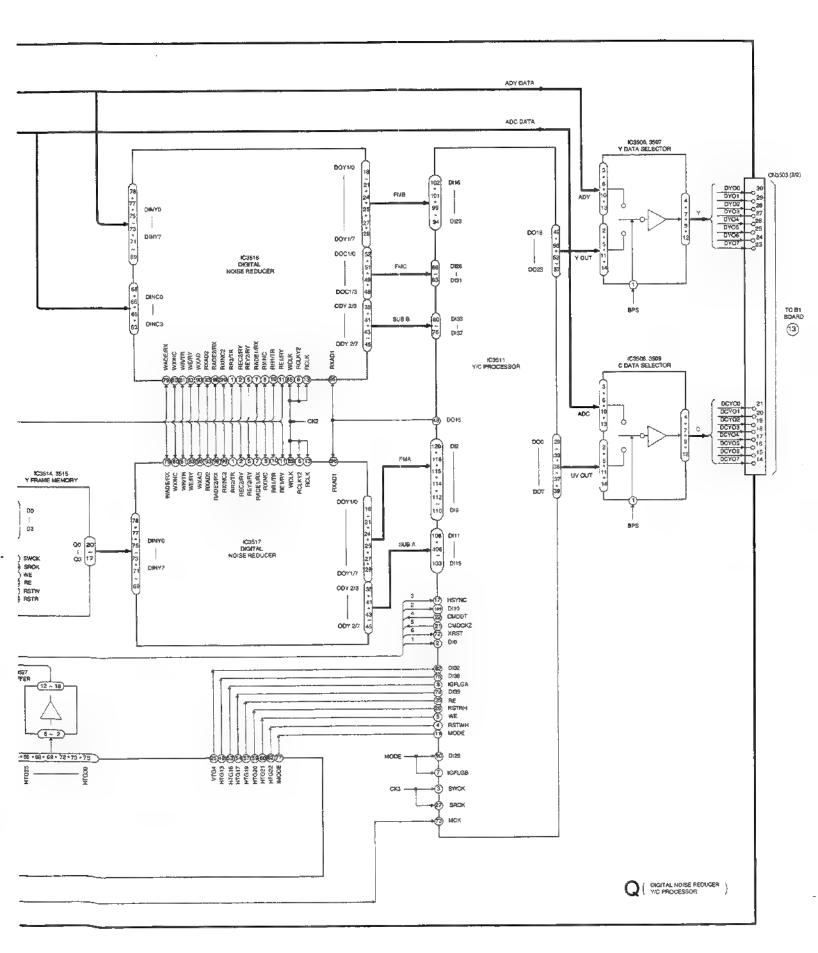
38-68-37)-

**IS3** 

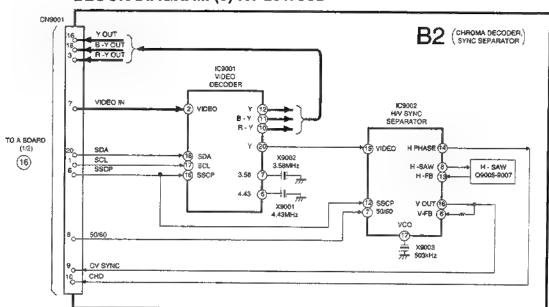


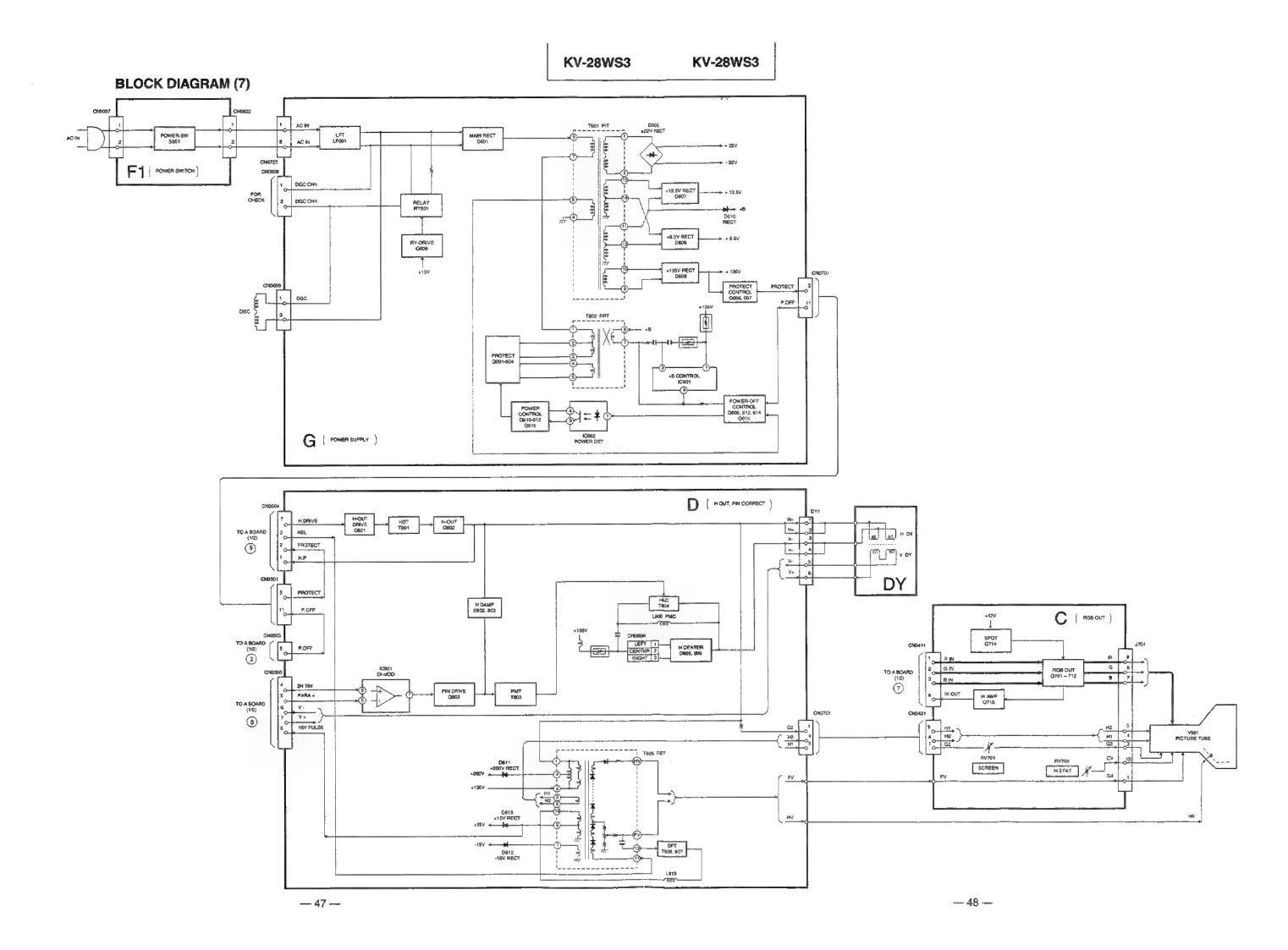


. .

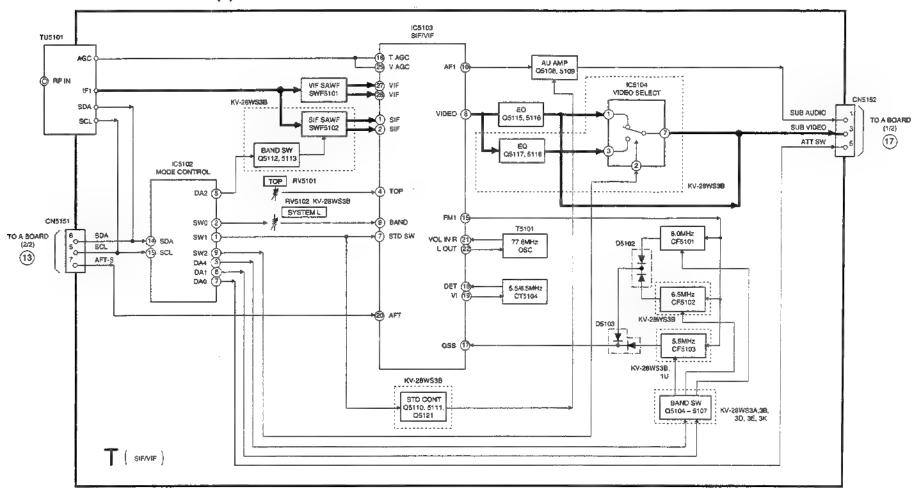


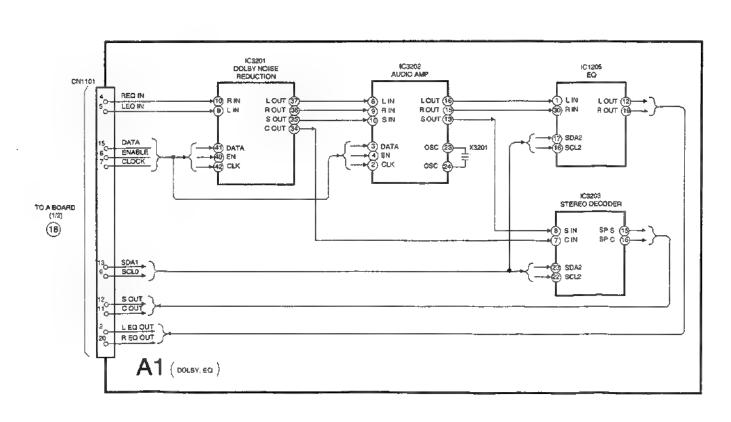
### BLOCK DIAGRAM (6) KV-28WS3B

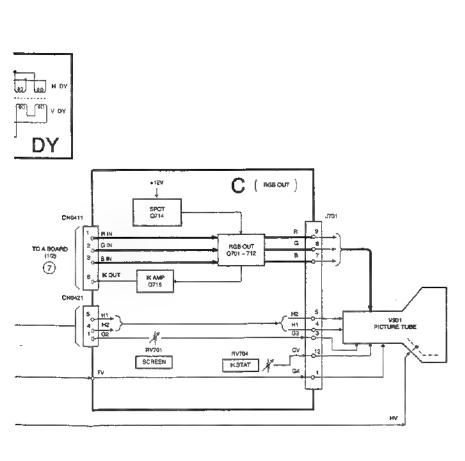




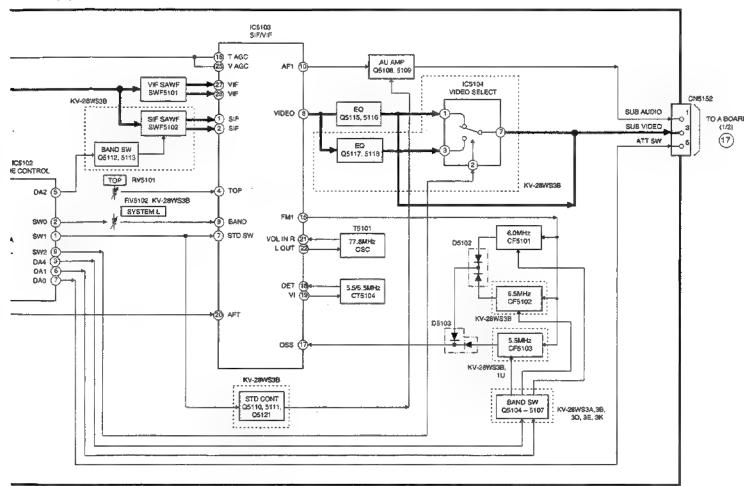
# **BLOCK DIAGRAM (8)**

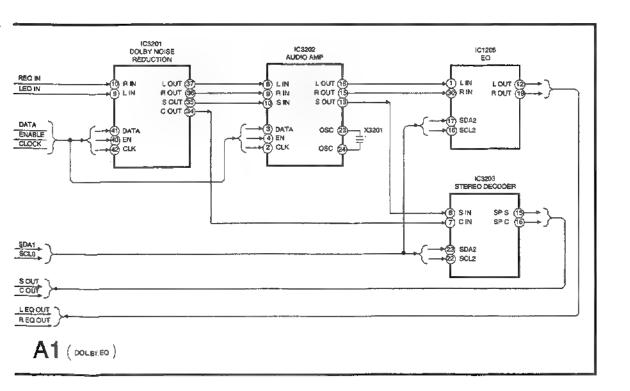




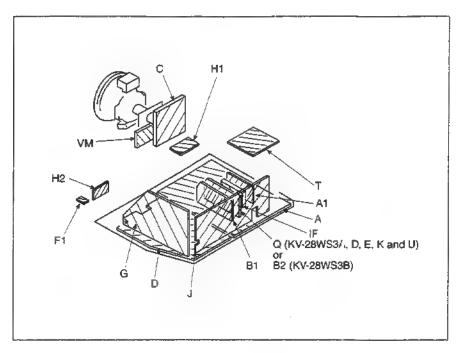


#### **FRAM (8)**





#### 5-2. CIRCUIT BOARDS LOCATION



#### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  - $k\Omega = 1000\Omega$ ,  $M\Omega = 1000K\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

#### Pitch: 5 mm Rating electrical power 4 W

- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve
  - B, unless otherwise noted.
- : earth ground.
- : earth chassis.
- : nm mounted.

Note: The components identified by shading and marked i are critical for safety. Replace only with the part number specified.

Note: Les composants identifies par une trame et une marque . sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

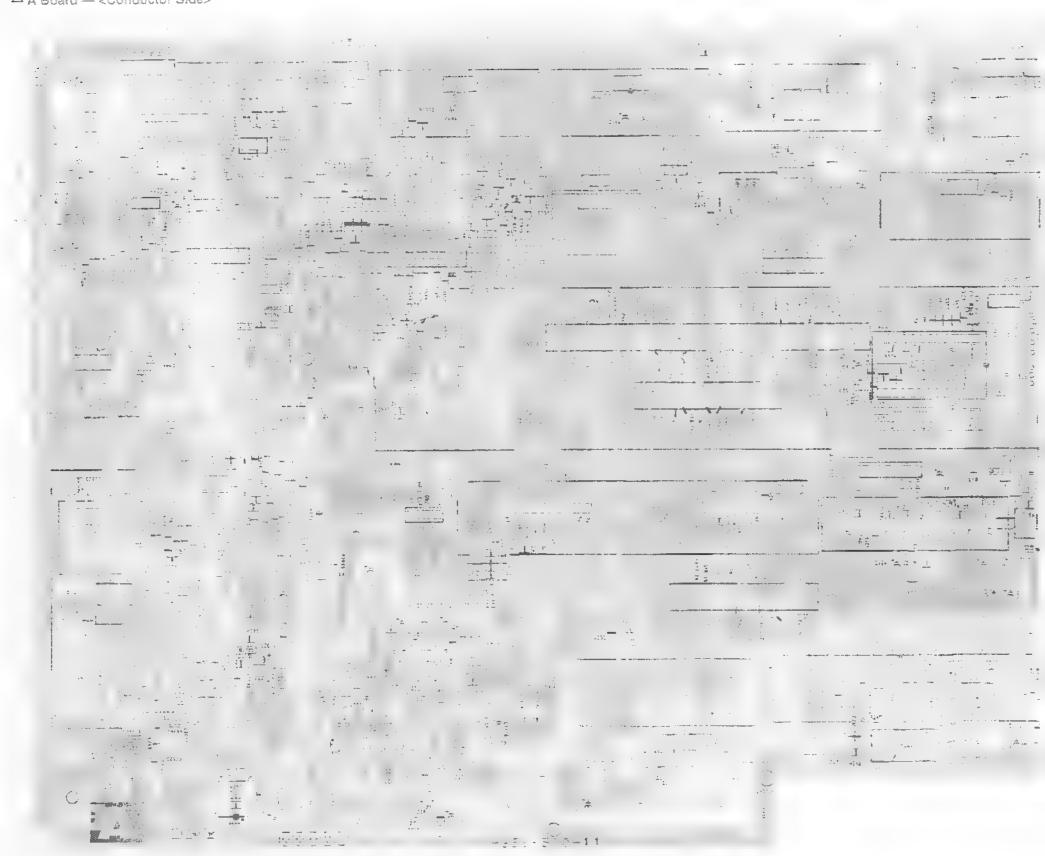
Reference infor	mation	
RESISTOR	: RN	MËTAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: <b>X</b>	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	; TA	TANTALUM
	: P\$	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
,	: MPP	METALIZED POLYPROPYLIENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal in put.
- Readings are taken with 10M $\Omega$  digital multimeter.
- Voltages are do with respect to ground unless otherwise
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

#### - A Board - <Conductor Side>

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02010	3-27			
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227.7	3.4		57-0	_
TR45,81	STOR		E - 7	
TR4NS:	## 6 OG HTML ## 12		E	
010- 010- 010- 010- 010- 010- 010- 010-	E-3	-		
4	E 33			1.14
	F . (1.1)		11.2.5.1	3
Z :	E 50		0.253	
417.00	= 5-	:	0.034	
	E-21		T per	~
		:	- 3-2	
2,03	2		525	
0116	⊆			
Q107	0.0		_275	
Q110	F-11		2-7-	
O <b>Q</b> 203	=-6		Diad.	G 11
0252	6-10		000-	* *
0255	3.44		2505	3. 0
Q255	77.1		1.251	* -
U254	H-12		+-	
Q255	G-12		F 2	= -
Q256	B-1		2 2 2	
Q256 Q257 Q258	H-9			- '- :
0258	G-9	,		
0281	4.3			E-4
0.000	A.9		5	G-10
O281 O282 O351	B-1 H-9 G-9 A-8 D-11 E-10 E-20	•	77 - 17 7	5.5
U357	D-11	1		1.5
Q352	±-10	i		#-12
Q571	E-20			57 47
Q581	E-3		1 3 .	5.12
0681	B-8		5.5	H-8
Q1001	0.2		I 18:	E ''
■ C1001	Comment of the comment		0.411	4.5
<ul><li>Q1105</li></ul>	H-20			7.5
• 01100 • 21107 • 21108	-53		[ ]	2.1
<ul><li>D1107</li></ul>	G-4			10 0 4 10 0 4 10 0 10 0 10 0 10 0 10 0
<ul> <li>Interest</li> </ul>	H-4.			7 /
21818	8-10		27.3	= :
F - 1 - 2	8-12		2 , 1 - 1	2 1
= , 1, 1			7 17/3	÷
	A-12			
21574	A-12		- ;	= -
• Q1105 • D1107 • D1107 • D1108 • D1108 • D1508 • D150	₿-9		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	F 0
	8-14		92781	B-2
	B-11			

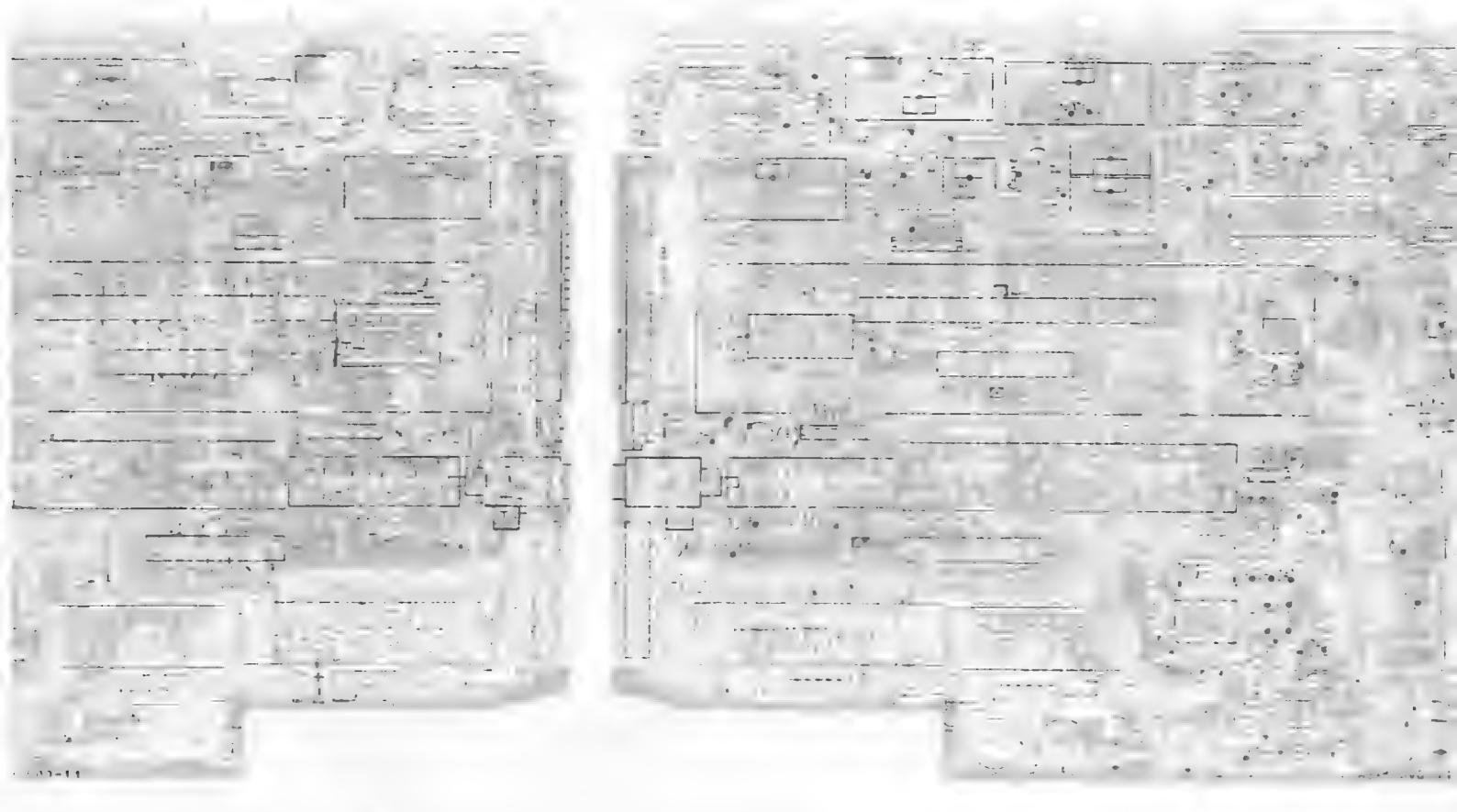
- mark: KV-28WS3A,3B.3D,3E and 3K only
   mark: KV-28WS3B.3E and 3U only
   mark: KV-28WS3A.3D,3E.3K and 3U only

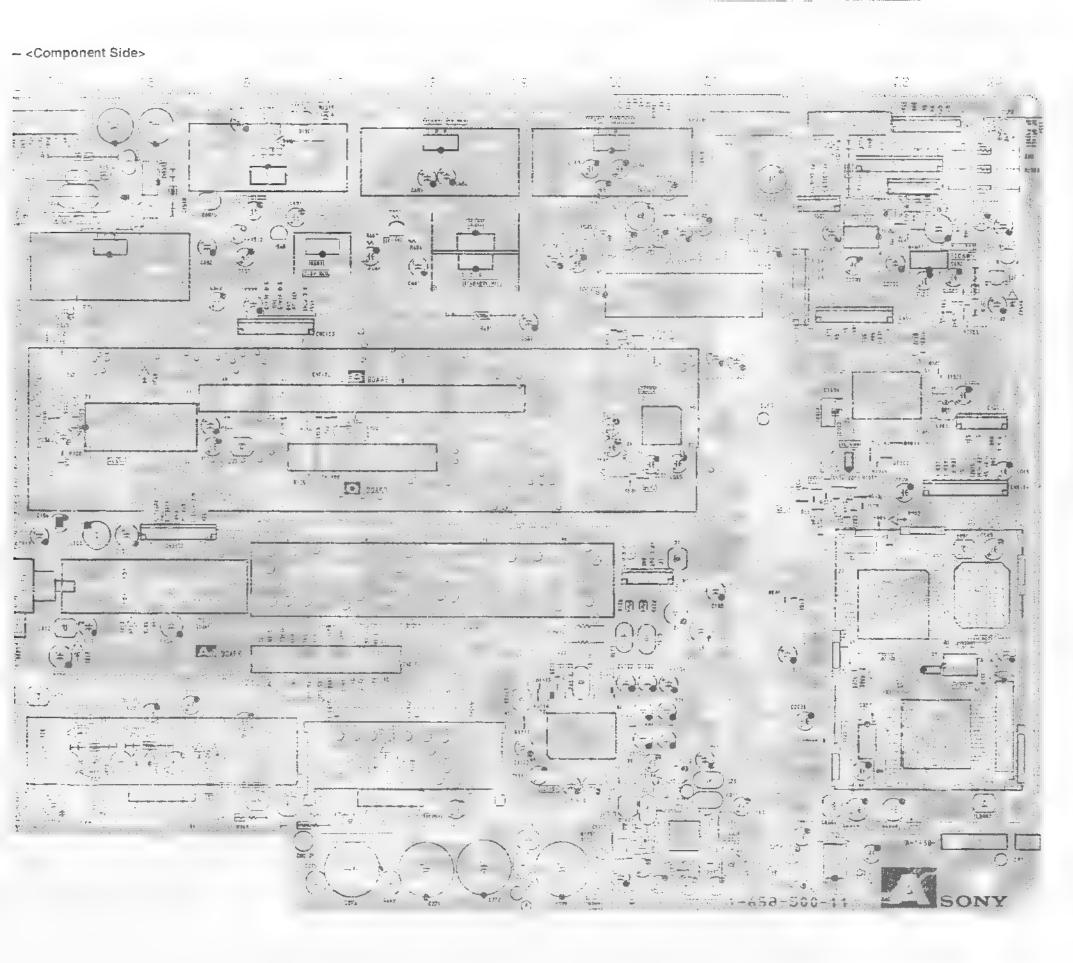


3

KV-

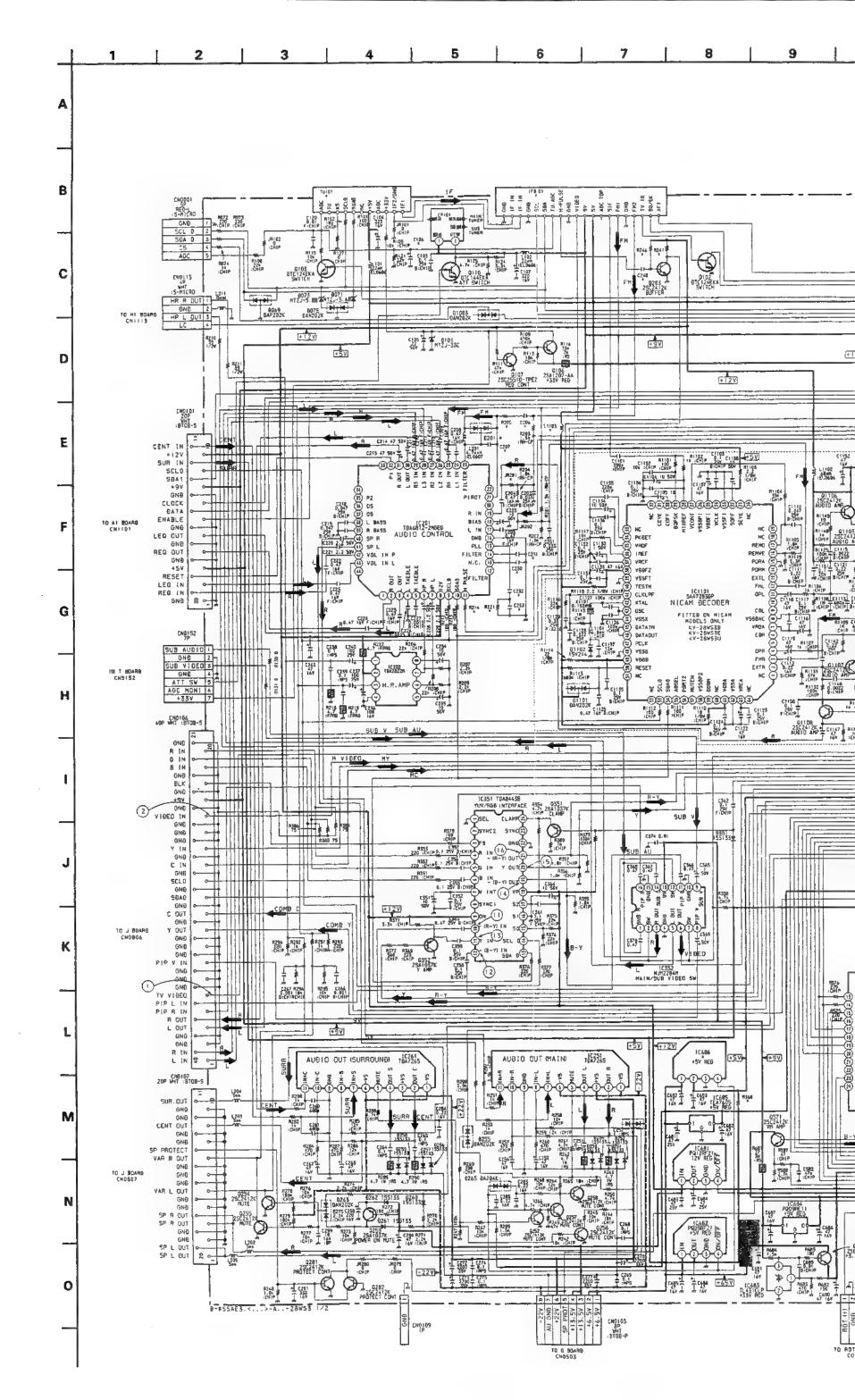


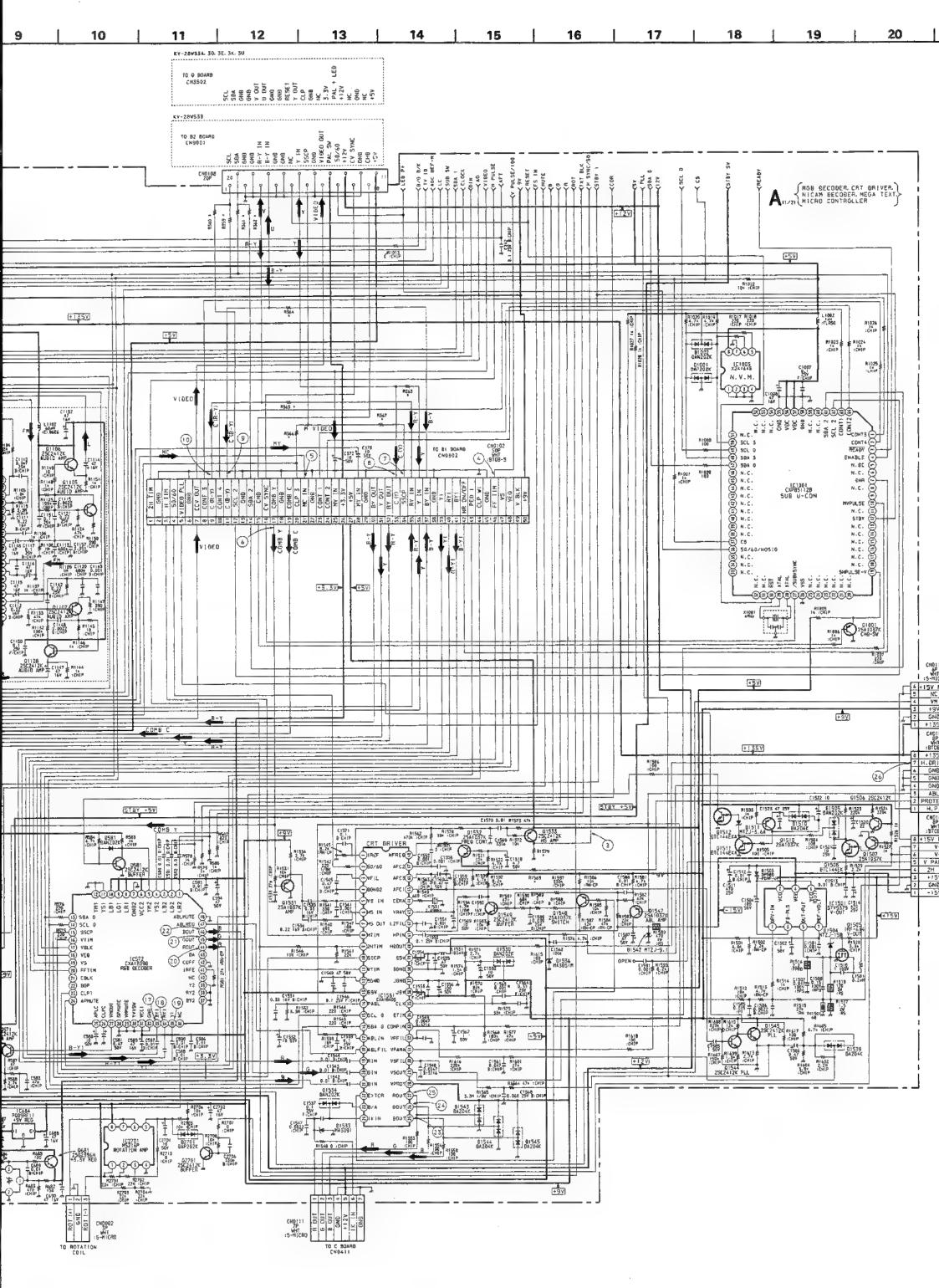


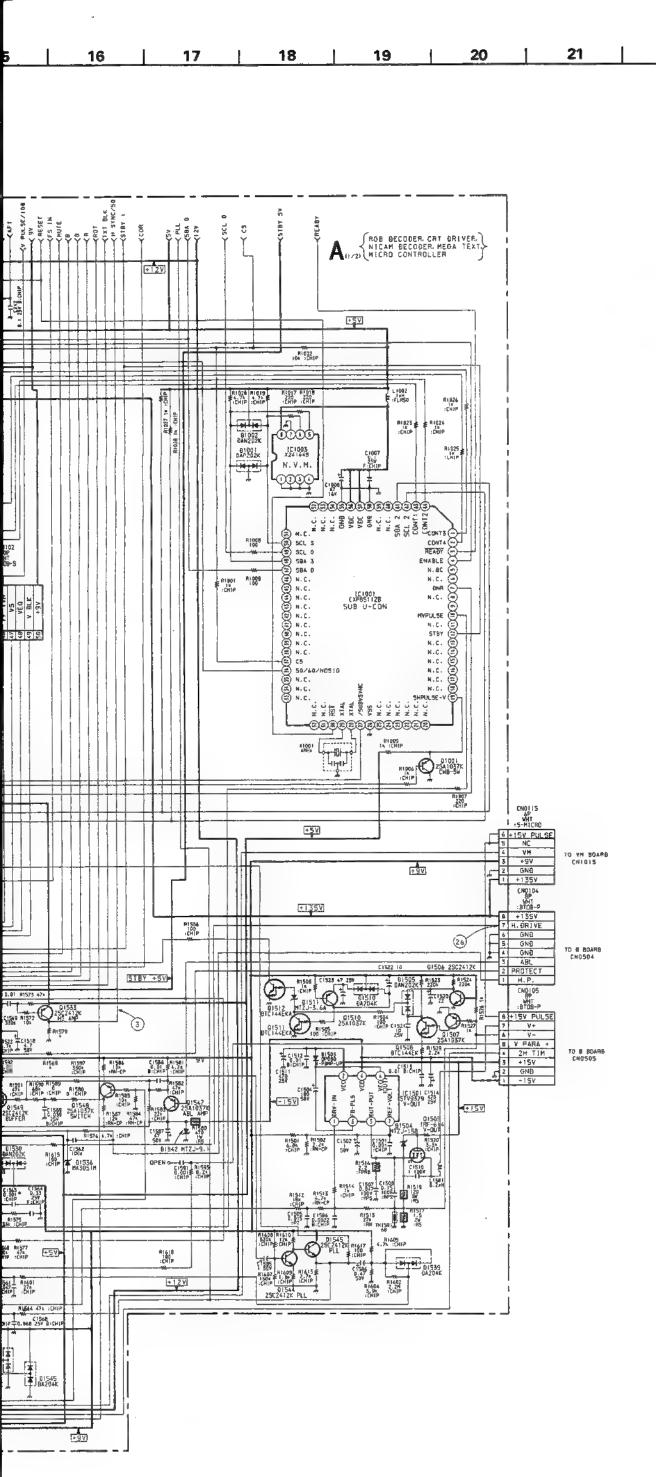


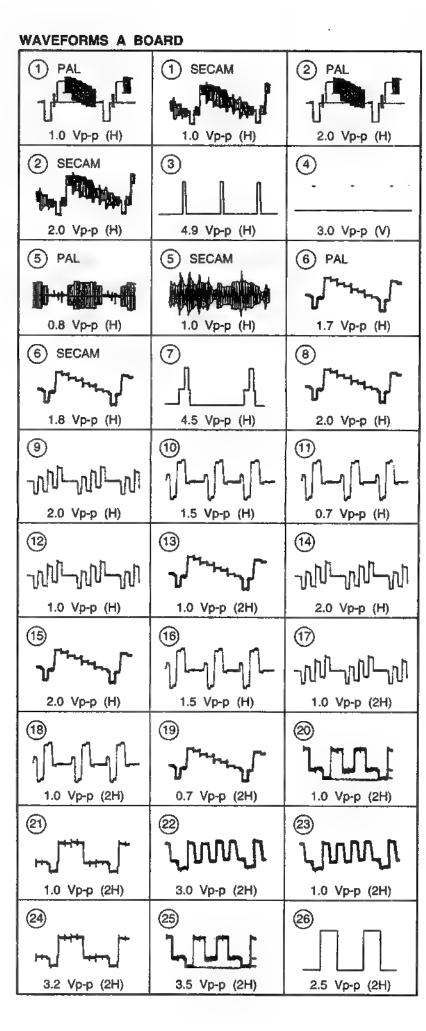
Α.	R0	LA.	DE	* *	8.4	٨	DI	~

7.						
	28W\$3A	25W\$3B	281/\$30	28WS3E	28WS3K	28WS3U
	4.794	tiwi w	: "VIF ~000"	2 33 00	1 - V - 10 - 10 - 10 - 10 - 10 - 10 - 10	1.7551 6
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-	21 + 47 1	1 m gr	COMME.	1118/45	Sec. 7.07.7	
	+ p. ( .		4.42	· 57*	17.1-	
	1825	- *ak.	4.40	194	1145	*
	9.0	n - 13-	1111 19	N. Oak	1.1.353	-
- '	4, 4	4.673	1000	·	497-	•
:	1	1 × 7	15.7	1104	1 1	
	714, 42	Transpire	1 42.914	04, 44	DA 1.46	
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	16.4		5. 4	)(CF	**************************************	
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			10-12-63	14,4	.5 <del>m</del> (₹)	11080
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	Lond R		1.7		,5H151	DH F
÷			1944		* H *	1 1 1 4
F		1.000				
1		P.E				•
<u></u>	1 TH11		Specific Control	4	241	beak.
region 1	*: 6	1 (4)	44	,		1.74
	1 fee		1.96			1.56
:		. 164	,; w	1,74		
	4.0	. 5 16	1.11	. 12%		***









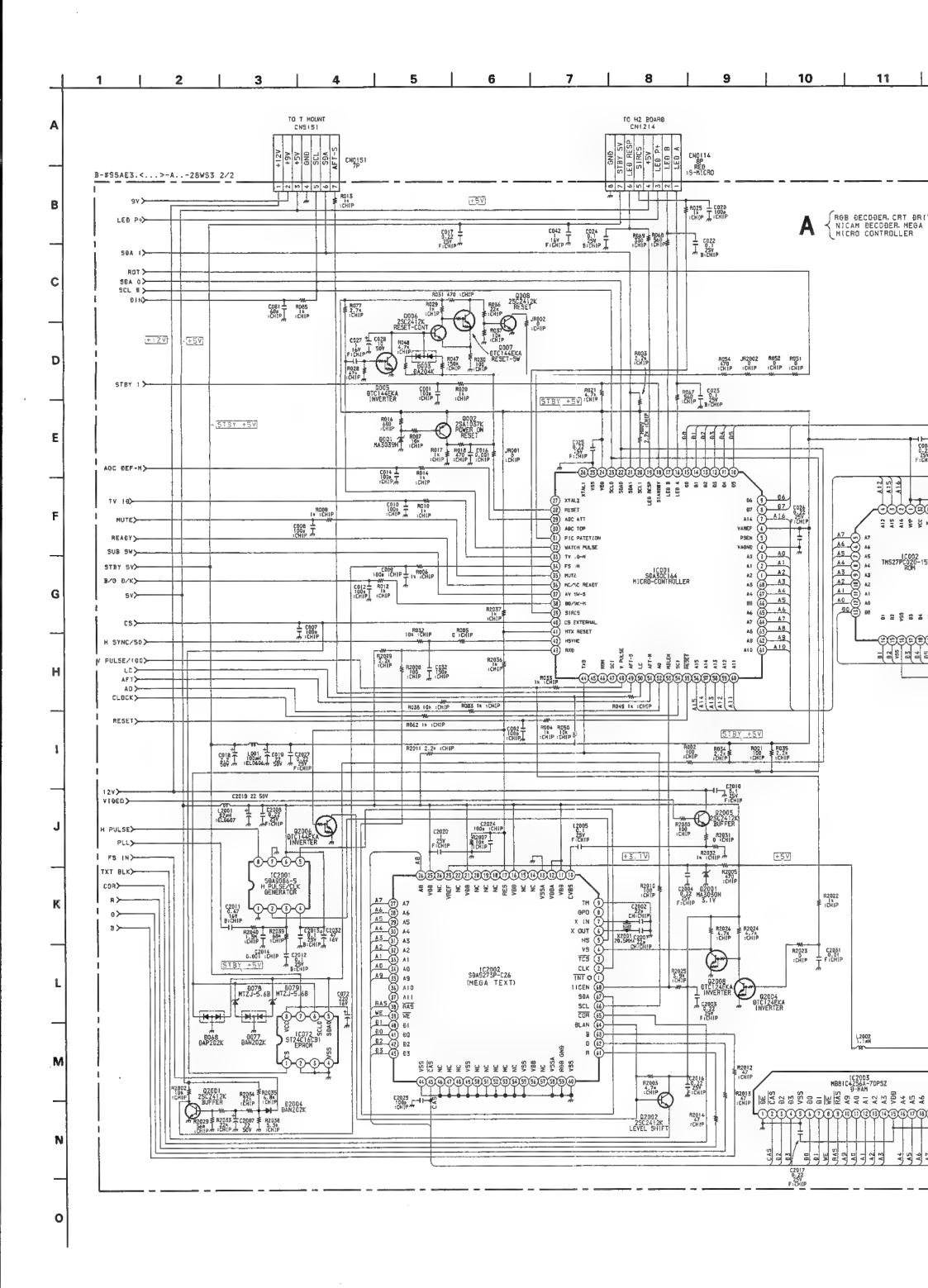
#### WAVEFORMS A BOARD

WAVEFORMS A BO	ARU	
1.0 Vp-p (H)	1.0 Vp-p (H)	2.0 Vp-p (H)
2 SECAM	3	4
2.0 Vp-p (H)  5 PAL	4.9 Vp-p (H)  5 SECAM	3.0 Vp-p (V)  6 PAL
0.8 Vp-p (H)	1.0 Vp-p (H)	1.7 Vp-p (H)
6 SECAM  1.8 Vp-p (H)	7 4.5 Vp-p (H)	8 2.0 Vp-p (H)
② -√[]_/[]_/[] 2.0 Vp-p (H)	1.5 Vp-p (H)	0.7 Vp-p (H)
120 Vp-p (H)	1.0 Vp-p (2H)	① -{{\bar\delta}_{\bar\delta}\bar\delta} 2.0 Vp-p (H)
2.0 Vp-p (H)	1.5 Vp-p (H)	1.0 Vp-p (2H)
18 1.0 Vp-p (2H)	(19) 0.7 Vp-p (2H)	20) 1.0 Vp-p (2H)
21) 1.0 Vp-p (2H)	22 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	② \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.2 Vp-p (2H)	(25) 3.5 Vp-p (2H)	26 2.5 Vp-p (2H)

Ref.No.	Pin No.	Voltage (V)	Rel.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC1001	1	-		44	GND	]	5	3.5
	. 2	4	]	45-47	2.1	1		3.0
	3	5.0	]	48	GND	1	7	3.1
	4	4.0	]	49-50	4.4	1	8	1.7
	5-6	-	]	51-52	-	1	9	1.8
	7	0	1	53-54	4.0	1	10	0.0
	8-9		1	55-60	-	1	11	0.5
	10	0.2	1	61	4.4	1	12	GND
	11	-	1	62	GND	1	13	9.0
	12	1.5	1	63	2.2	1	14	- 4
	13-1B	-	1	64		1	15	3.8
	19	1.0	IC201	1	0	1	16	4.0
	20-25	-	1	2-7	8.1	1	17	4.4
	26	GND	1	В	12.0	1	18	8.7
	27	2.0	ĺ	9-10	4.0	1	19-21	3.6
	28	2.5	1	11	0.1	1	22	0.8
	29	2.5	1	12	0	1		2.4
	30	4.0	1	13-15	3.0	1	24	5.0
	31-54		1	16	0	1	25	2.1
	55	GND	1	17-19	6.1	1	26	2.2
	56	5.0	1	20	-	1	27	2.1
	57	5.0	1	21	6.1	-		8.0
	- J	GND	-	22	0	1	29-32	4.0
	59-60	-	i	23-31	6.1	1	33	5.1
	61	6.3	1	32-35	0.1	1	34	0.2
	62	4.2	-			1		
	63	0	-	36-43 44	6.1	1	35	9.0
	64		10000			4	36	
IC1101	1-P	0	1C202	1 2	5.4		37	GND
CHOT	3	1.0		3	12.0			
	4	2.2	1		5.4		39	5.0
	5-6	2.2		5	GND 0.5		40 41	2.1
	7	2.2		6-7	0			
	8	0					42	4.2
				8	0.5		43	۰
	9-10	-	IG2701	1-3	4,4		44	
	11	2.2		4.0			45-47	4.6
	12	1.0		5-7	-		48	4.4
	13-14			6.0	0	IC1501	1	2.2
	15	GNO	101000	9.0	0.2		2	14.0
	16	2.2	IC1003	1-4	GND		3	-14.0
	17	4.0		5-6	5.0		4	-16.0
İ	18-21	-		7	GND	[	5	-1.4
	22	2.2		8	5.0		6	14.5
	23	0	IC251/261	1	-20.0		7	2.2
	24			2	. 0	IC681	t	13.3
	25	2.2		3	20.0		2	12.0
	26	-	!	4	0		3	GNĐ
	27-30	2.1		5	10.0		4	2.3
	31-33	-		6	-20.0	IC682	1	5.7
	34	1.8		7-8	0		2	5.0
	35-37	2.1		9	GND		3	GND
	38	4.1		10-11	٥		4	2.3
	39	GND	IC1531	. 1	3.7	\$C883	1	2.4
	40	-		2	0.3		2	GND
	41	1.7		3	5.8	l i	3	4.0
	42	3.1		4	GND	<u> </u>		
	43	2.1				At Volt	ages are Ind	licated in Volts DC

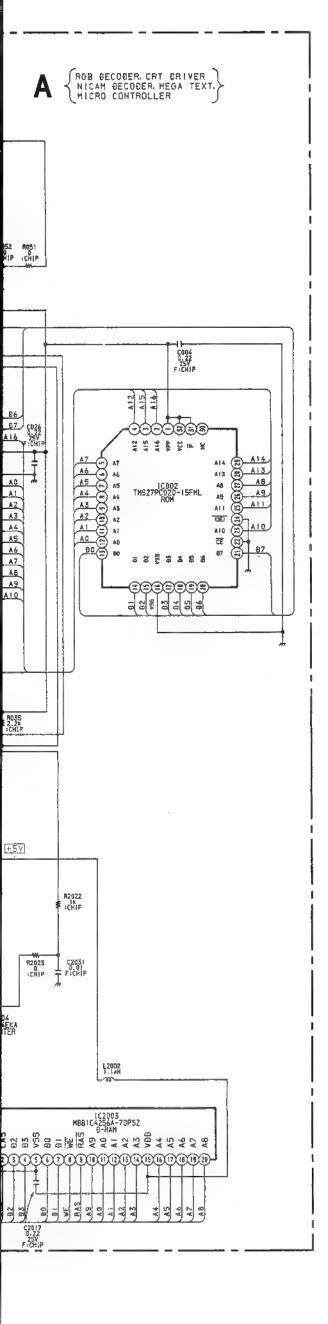
Ref.No.	Pin No.	Voltage (V)	
1C684	1	11.9	
l	2	GND	
	3	9.0	
IC685	1	5.8	
	2	GND	
	3	5.0	
IC686	1	5.6	
	2	5.0	
	3	GND	
	4	2.3	
IC572	1-3	6.0	
'	6	9.0	
	7	GND	
	8-10	9.0	
	11-12	GNO	
	13-14	4.0	
	15	9.0	
	16	0.6	
	17	0.5	
	18-20	0.3	
	21-22	NC	
	23	0.2	
	25	4.0	
į	26	4.7	
ĺ	28-30	GND	
	31	9.0	
	32	GND	
	33-35	4.4	
	37-39	GND	
	41	2.5	
	42	GND	
	44-45	2.7	
	45	2.8	
	47	8.7	
	48 -	NC	

		,	
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q102	4.7	0	
Q103	0	1.7	
Q106	31.4	32.0	32.0
Q107	0.5	0	0
Q203	0.6	0.1	0
Q251	0.6	4	0
Q252		0.6	0
Q253	13.4	-0.4	13.4
Q254	-2.1	٥	0
Q255	-2.0	0	0
Q256	-0.1	2.3	0
Q257	0.6	0	
G259	21.5	10.5	21.1
Q260	0	21.5	0
Q351	2.8	1.7	3.5
Q352	1.8	0	2.5
Q571	6.4	9.0	5.7
Q581	0.6	0	- 1
Q1001	0.3	0	1.0
Q1105	3.0	5.6	2.4
Q1107	3.0	5.8	2.4
Q1108	5.B	11.8	5.2
Q1502	0.4	9.0	-3.7
Q1531	5.6		6.1
Q1532	9.0	4.4	9.0
Q1533	0.5	0.4	0
Q1544	1.1	4.5	0.6
Q1545	4.5	9.0	4.0
Q1447	4.4	-9.0	5.0
Q1548	6.4	9.0	5.7
Q1549	0.9	-0.2	1.4
Q1532	-1.2	3.0	-1.8



— 62 <del>—</del>

10 | 11 | 12 | 13



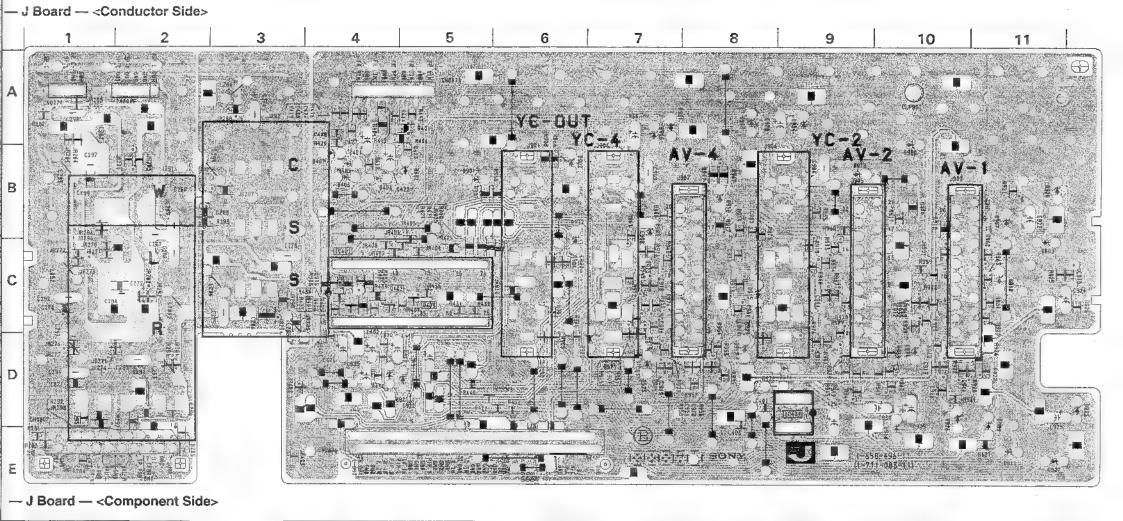
Ref.No.	Pin No.	Voltage (V)
IC001	6	5.0
	16-17	3.7
	18	2.5
	19	3.6
	20-21	5.0
	22-23	4.0
	24	5.0
	26	2.1
	27	2.3
	28	4.7
	29	
	30	4.8
	31	2.4
	32	1.6
	34	5.0
	36	5.0
	37	3.4
	38	3.3
	39-40	5.0
	41	0.1
	42	0.4
	43	5.0
	44	4.8
	48	0.3
	49	1.3
	50	5.0
		2.4
	52	5.0
	53	4.5
	54	5.0
	55	3.6
IC002	1	5.0
	31-32	5.0
IC2002	2	1.5
	4-5	0.1
	6-7	1.7
	10	0.8
	11-12	5.0
	16	5.0
	17	0.1
	21	5.0
	23	3.0
	25	5.0
	45	4.4
	65	0.6
	86-87	5.0
	68	4.5
	1 00	400

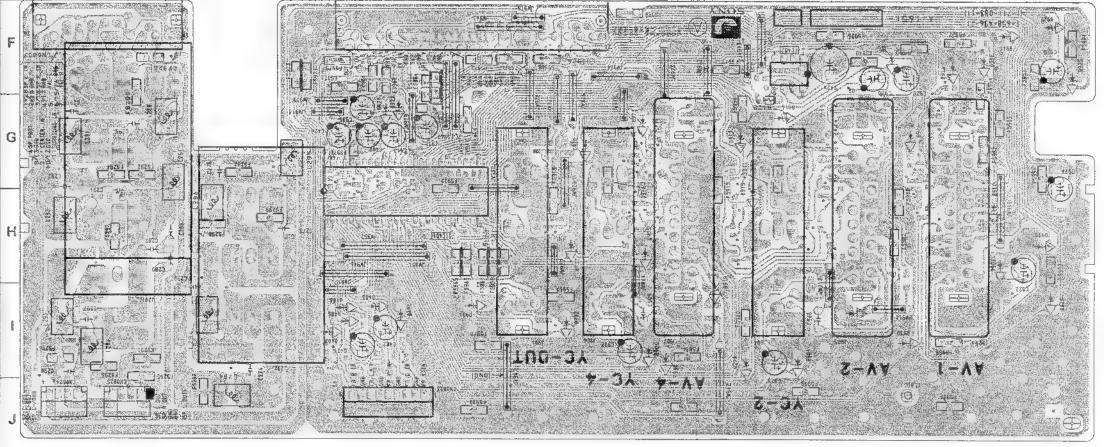
Pin No.	(8)	(0)	(E)
Ref.No.	Base	Collector	Emitter
Q002	4.2	4.7	4.8
Q005	-0.1	0	0
Q006	0	4.8	0.8
Q007	4.8	0.9	0.8
Q00\$	0.3	4.8	0
Q2001	0.3	5.0	
Q2002		4.8	0
Q2004	0.3	4.0	0
Q2005	3.8	12.0	3.1
Q2006	0.1	0	0
Q2008	4.0	0.1	0

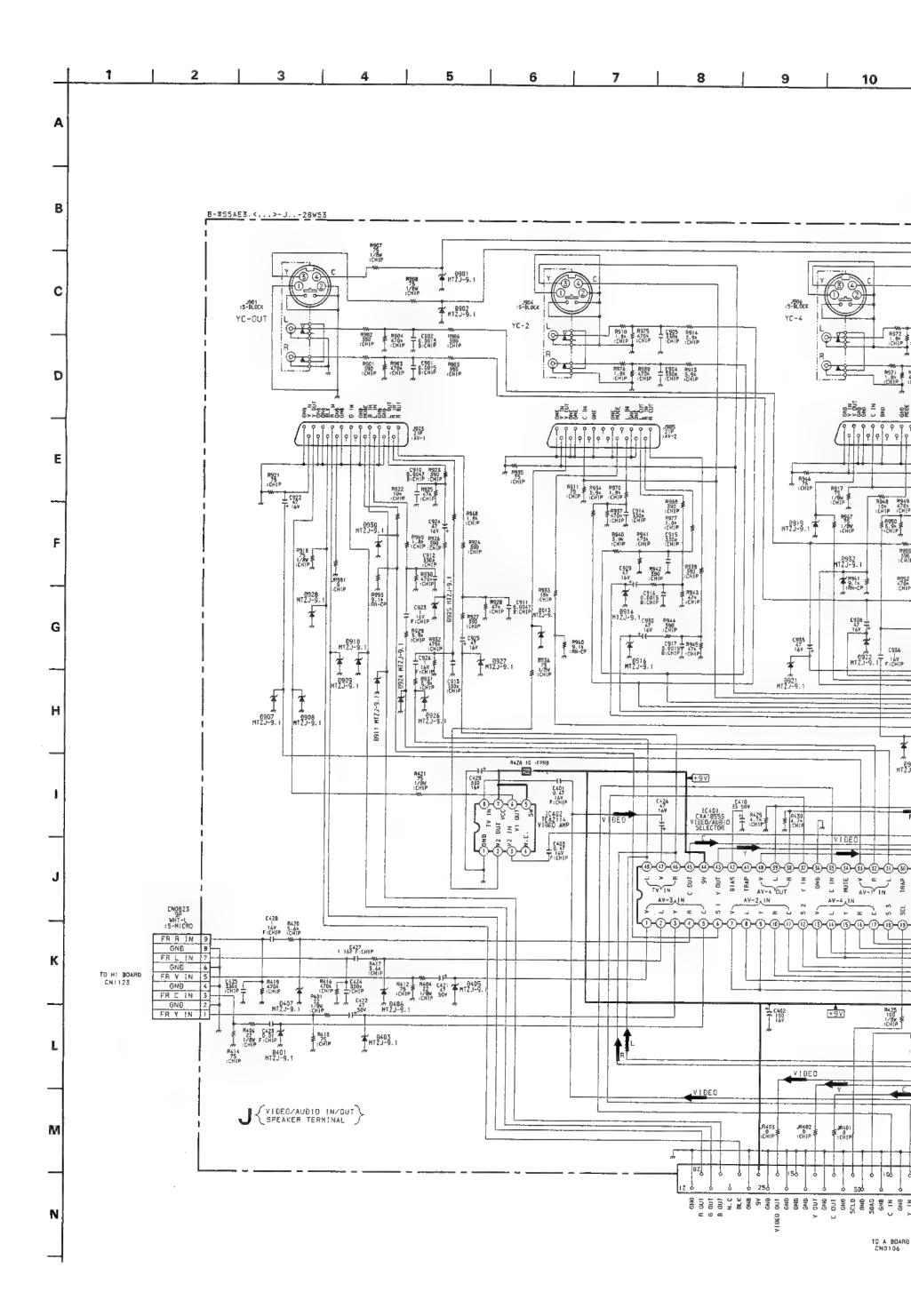
#### **J BOARD**

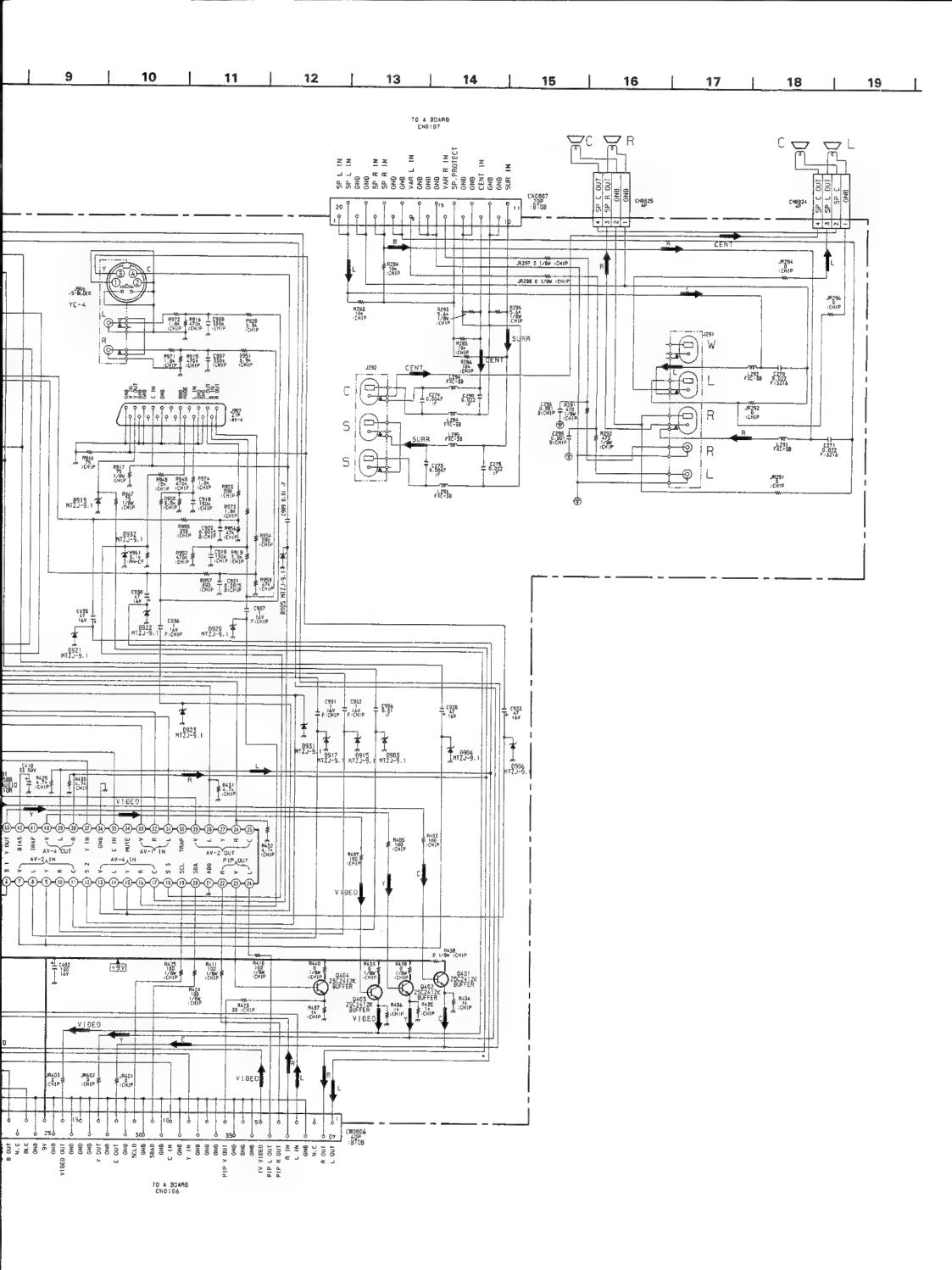
	С
IC401 IC402	C-4 D-9
TRANS	SISTOR
Q401 Q402 Q403 Q404	C-4 C-4 C-5 D-6
DIC	DDE
D401 D403 D405 D406 D407 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910 D911 D913 D914 D915 D916 D917 D913 D914 D915 D916 D920 D921 D922 D923 D924 D925 D926 D927 D928 D920 D921 D922 D923 D924 D925 D926 D927 D928 D930 D931 D932	B-54 B-44 B-45 B-68 B-77 B-111 C-111 B-10 B-10 D-111 B-10 D-111 B-110 B-17 B-110 B-17 B-17 B-17 B-17 B-17 B-17 B-17 B-18 B-18 B-18 B-18 B-18 B-18 B-18 B-18

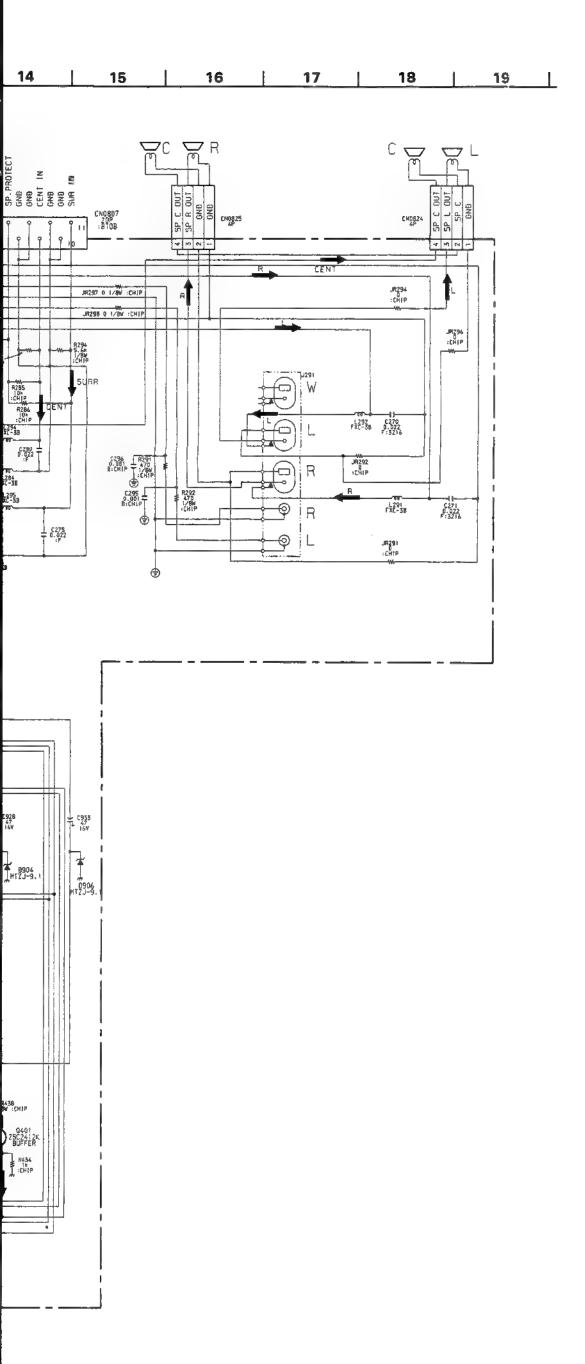










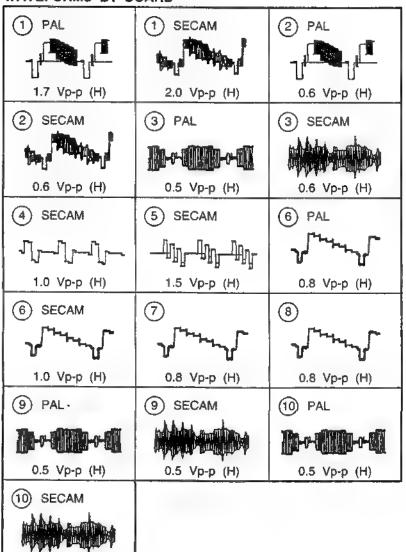


Ref.No.	Pin No.	Vollage (V)
IC401	1-5	4.5
	7-11	4.5
	13-17	4.5
	19-20	4.0
	22-33	4.5
	35	5.5
	37	5.5
	38-39	4.5
	40-41	4.4
	42	4.5
	43	5.4
	44	9.0
:	45	5.5
	46	4.7
	47-48	4.5
IC402	2	1.8
	3	2.5
	5	8.8
	6	1.7
	7	8.8
	9	2.2

Fin No.	(B)	(C)	(Ē)
Ref.No.	Base	Collector	Emitter
Q401	5.7	9.0	-0.3
Q402	5.5	9.0	5.0
Q403/404	4.4	9.0	3.9

#### WAVEFORMS B1 BOARD

0.5 Vp-p (H)



#### B1 BOARD (1/3) \* MARK

Ref. No.	28WS3A	28W\$3B	28W\$3D	28W\$3E	28WS3K	28W\$3U
C512	0.022MF	-	0.022MF	0.022MF	0.022MF	0.022MF
C535	0.1MF	0.0:2MF	0.1MF	0.1MF	0 1MF	0 1MF
C1320	0.1MF	0.022MF	Q.1MF	0.1MF	D.1MF	0.1MF
Q506	2SA1037K	-	2SA1037K	25A1037K	2SA1037K	2SA1037K
R514	1K	-	1K	1K	1K	1K
A515	56K	-	58K	58K	58K	55K
P528	100	-	100	100	100	100
PI532	-	0	-	_		-
R538	-	10K		-	-	-
R539	-	10K	-	-	-	-
FI540	_	1014	-	_	-	-
PI560	1M:	-	114	194	1M	166
R571	47	-	47	47	47	47
FI577	-	0	-	-	-	_
R578	0		0	1	0	0

IC301	10-11	3.2		53	3.1		10	2.4
	12	1.1	1	63	3.1		11	3.0
	13-16	3.2	1	65-66	3.1		12-13	2.6
	18-20	3.2	1	67	4.2		15	2.3
	21	2.3	1	68	3.1		16	0.1
	24	1.7	1	69	4.1		17	3.0
	29	3.2	1	70	3.1		19-21	2.8
IC302	1	3.0	1	72	3.1		22	3.6
	3	04	1	73	1.6		24	3.6
	4	3.2	1	75	0.1		26	3.6
	6	1.4	1	76-77	3.1		27	8.8
	7-8	1.0	1	69	3.1		30	4,2
	9	0.4	IC503	31-33	1.2		31-32	4.0
	12	3.2	1	35	1.2	All Vol	tages are in	dicated in Volts DC
	13	0.5	1	37	1.9			
	21	2.4	1	40	2.0			
	22-23	3.2	1	41-42	5.0			
			7					

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11-12

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5-6

1C1505

IC1506

IC1301

IC1302

3.0

3.0

0.6

4.8

0.6

4.8

0.6

4.8

1.4

1.2

1.2

1.2

1.5

1.5

1.0

1.0

1.0

1.3

1.4

1,4

4.4

8.0

4.2

2.9

7.0

2.8

4,2

2.2

0.1

2.2

0.1

4.2

3.0

4.8

2.6

4,8

3.1

3.1

1.6

1,2

1.2

3.2

3.1

3.1

1.0

1.0

1.5

3.2

1.5

1.8

1.2

1.6

3.2

1.6

1.7

3.1

0.3

1.1

1.6

1.2

1.5

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28-29

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47-48

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7-9

-11

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19-20

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23-25

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32-33

34-35

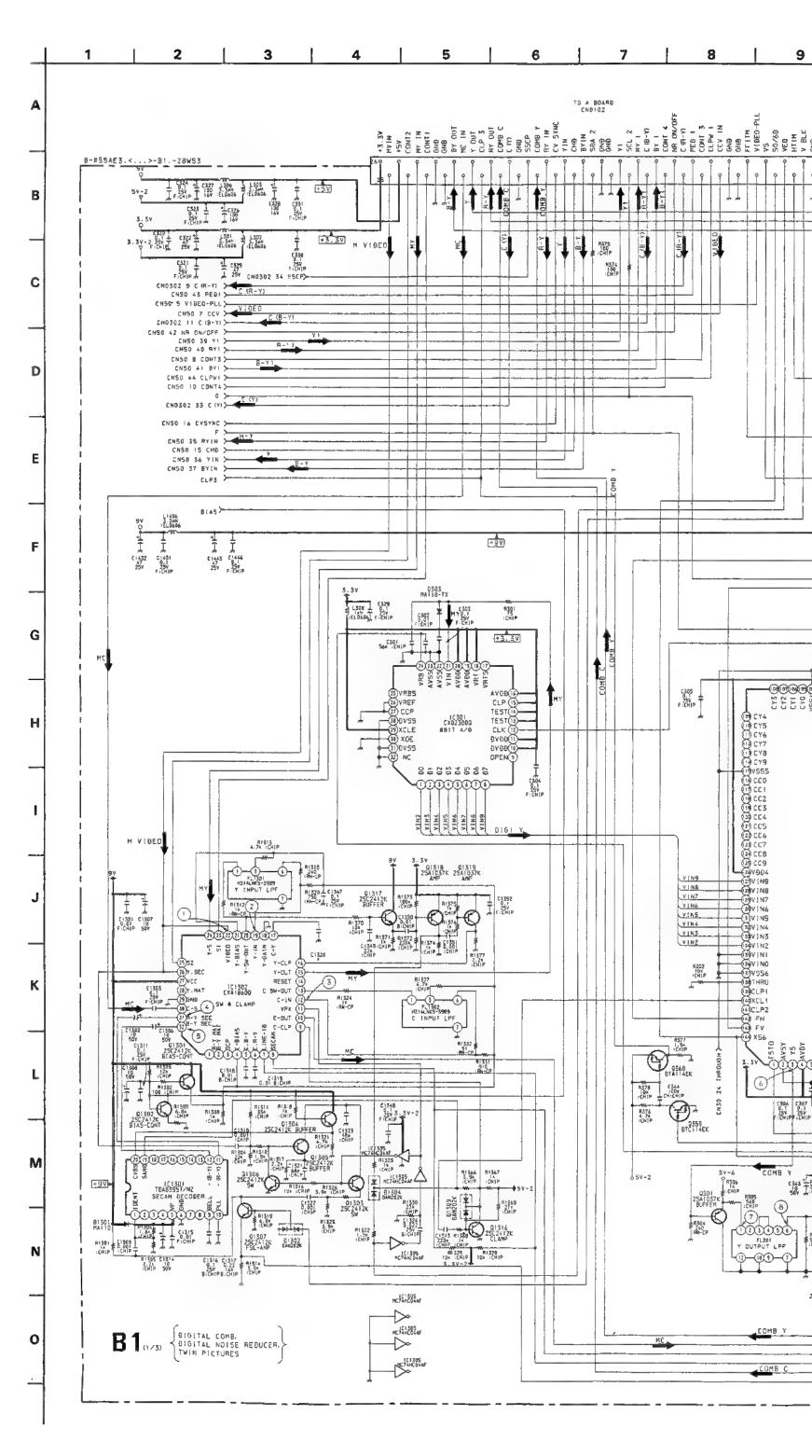
IC502

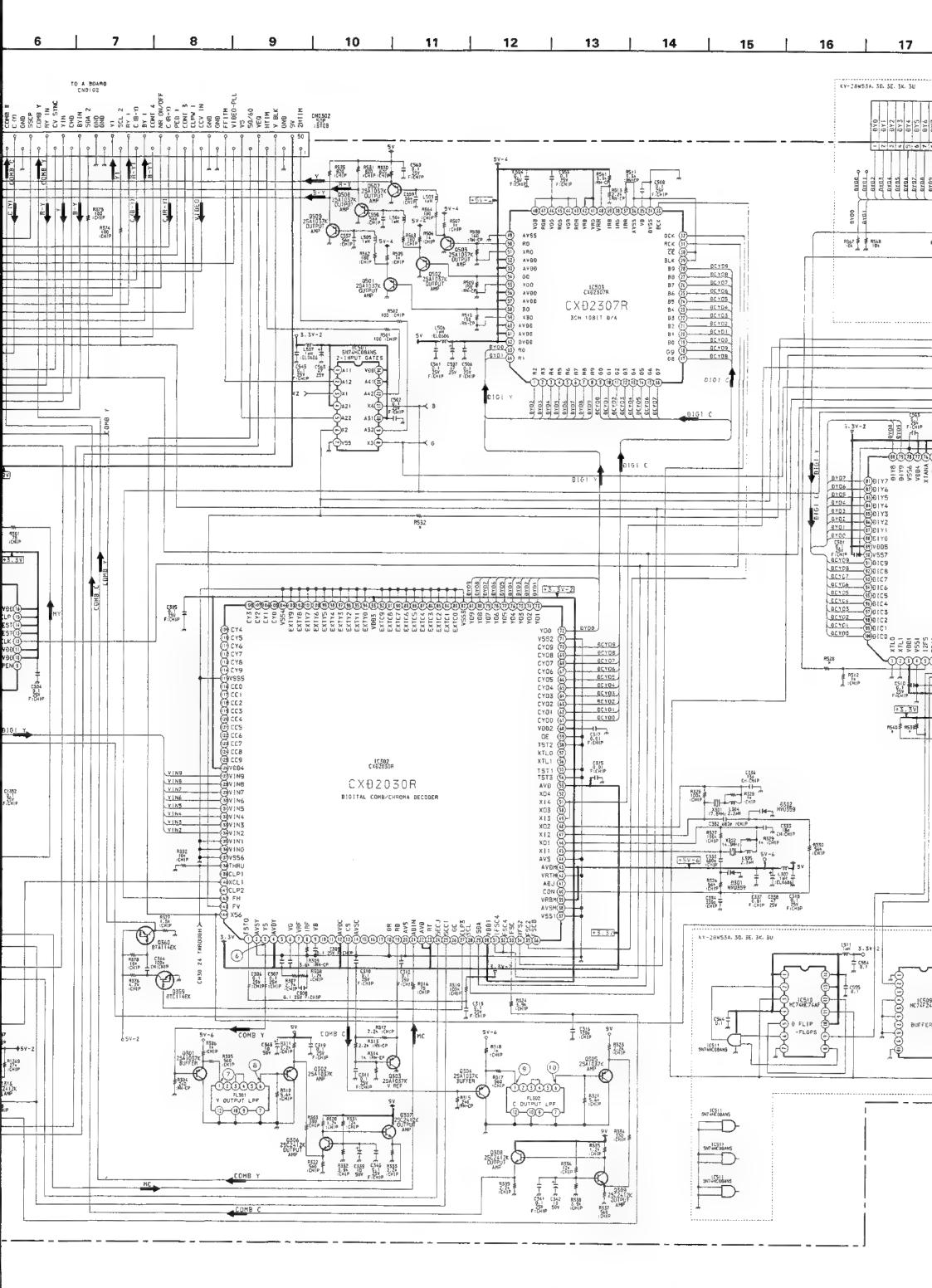
Ref.No. Pin No. Voltage (V) Ref.No. Pin No. Voltage (V) Ref.No. Pin No. Voltage (V)

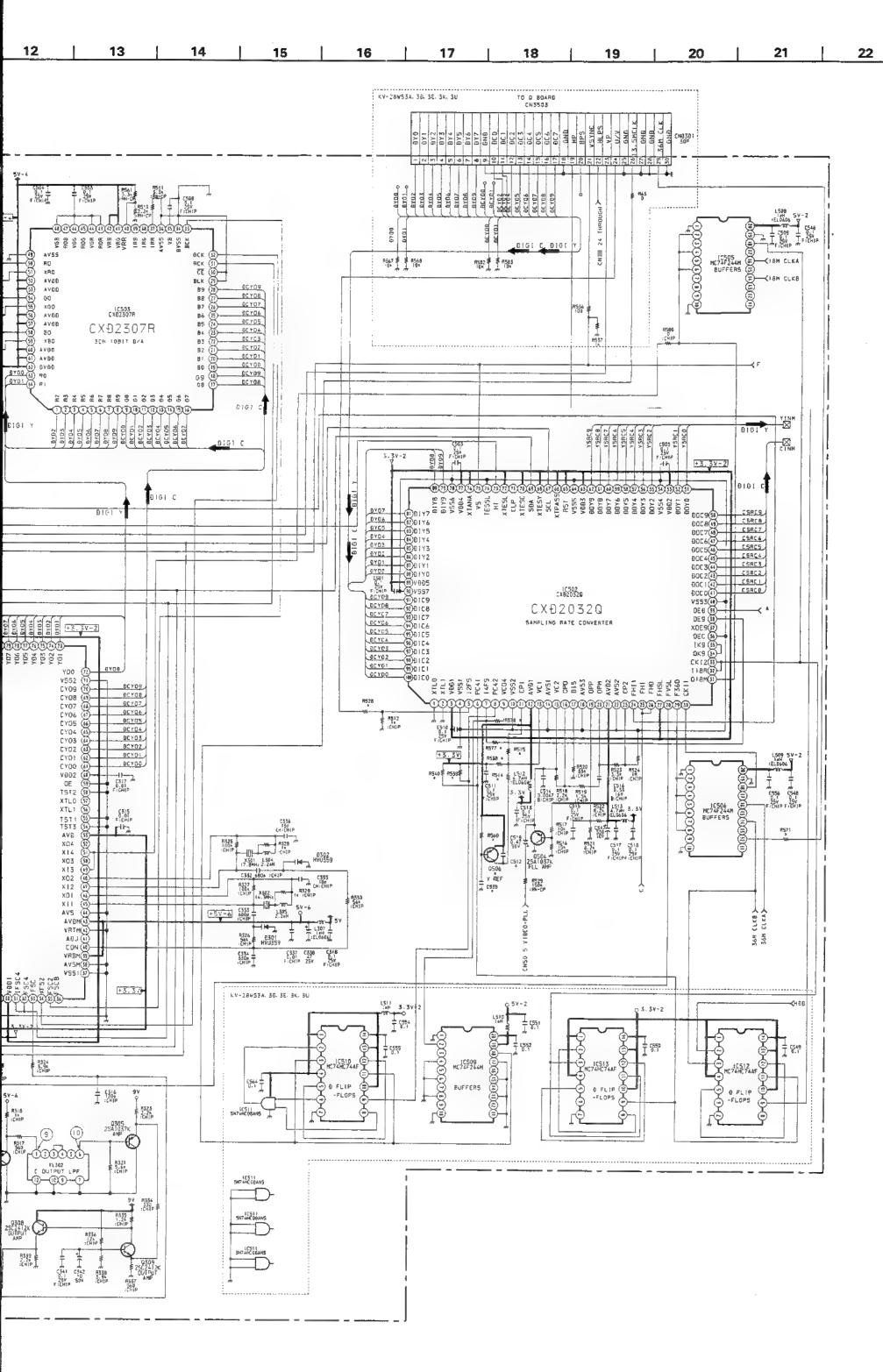
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q301	0.4	0	1.1
Q302	1.0	0	1.6
Q303	1.0	0	1.6
Q304	0.5	0	1.2
Q305	1.0	0	1.7
Q306	2.1	6.1	1.4
Q307	6.2	6.6	5.6
C)308	6.2	8.8	5.6
Q309	2.1	6.2	1.5
Q501/502/503	0.6	0	1.3
Q504	1.9	0	1.9
Q507	1.2	0	1.9
Q508	1.3	0	1.9
Q509	1,2	0	1.9
Q1301	3.4	8.8	2.8
Q1302	3.4	3.4	2.9
Q1303	0	7.5	0
Q1304	7.5	8.8	6.9
Q1307	Đ	8.7	0.8
Q1316	0.6	0.3	0
Q1318	3.2	0.2	3.2
Q1319	3.2	0.1	3.2

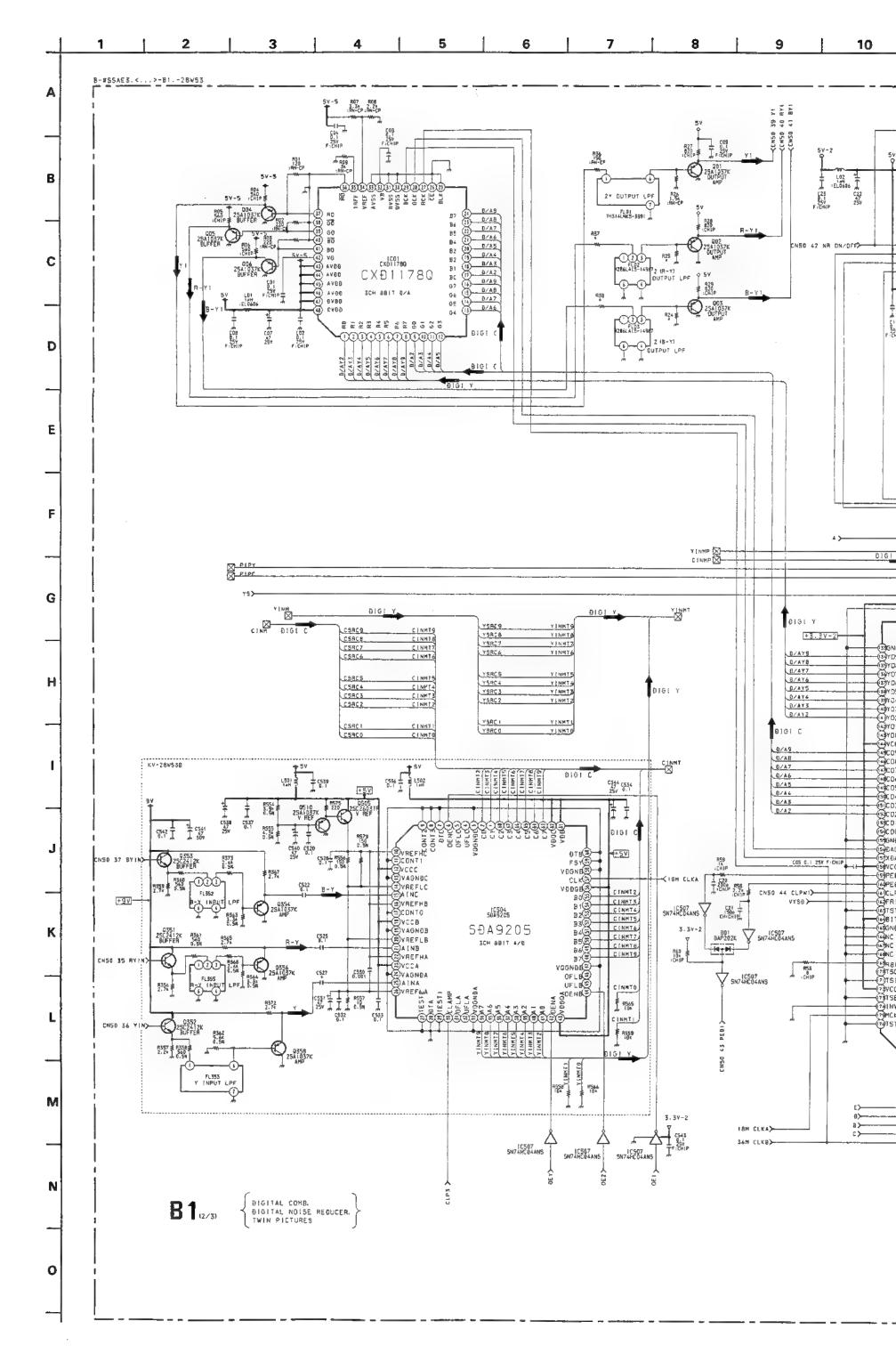
E	28WS3K	28W53U
	0.022MF	0.022MF
	0.1MF	0 1MF
	0.1MF	0.1MF
τ .	ZSA1037K	2SA1037K
	116	- 1K
	56K	56K
	100	100
	-	-
	-	-
	-	-
	-	-
	1M	1M
	47	47
-	-	P
	0	0

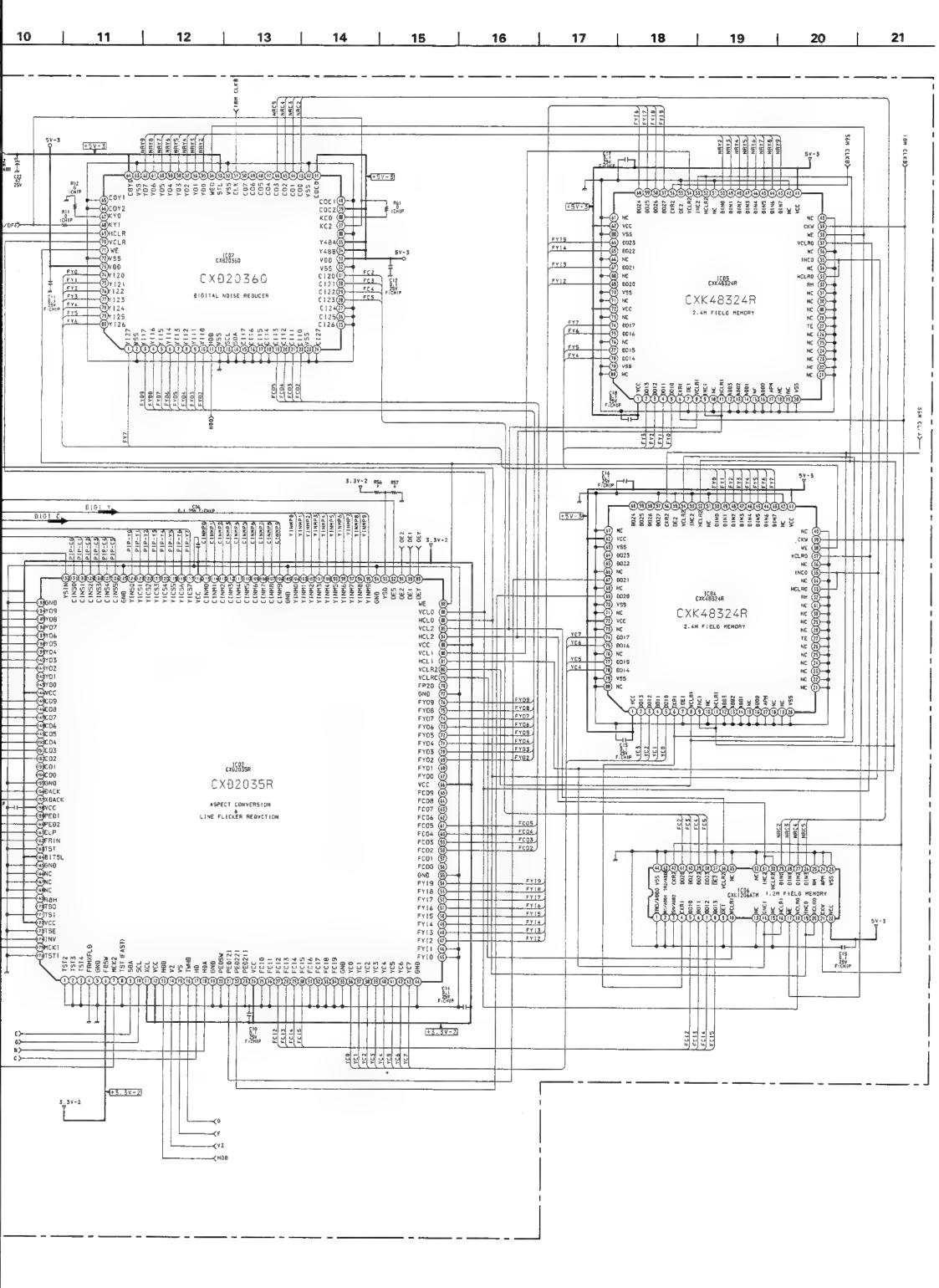
Pin No.	(B)	(C)	(E)
.No.	Base	Collector	Emitter
D1	0.4	0	1.1
02	1.0		1.6
03	1.0	0	1.8
D4	0.5	0	1.2
05	1.0	- 1	1.7
06	2.1	8.1	1.4
07	6.2	6.8	5.6
D8	6.2	8.8	5.6
09	2.1	6.2	1.5
01/502/503	0.6	0	1.3
24	1.9	0	1.9
37	1.2	0	1.9
90	1.3	0	1.9
09	1.2	0	1.9
301	3.4	8.6	2.8
302	3.4	3.4	2.9
303	0	7.5	0
304	7.5	8.8	6.9
307	0	8.7	0.8
316	0.6	0.3	
318	3.2	0.2	3.2
319	3.2	0.1	3.2











Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
(CO1	27	1.2	IC06	4	1,3
	28-29	1.5	7	10	Ó
	32	1.1	7	17	1.0
	34-35	1.9	7	21	1.2
	37	0.3	7	22	4.8
	39	1.1	7	42	1.3
	41	1,1	IC07	17	1.6
	42	3.0	7	33-35	4.8
	43-48	4.8	7	39	4.8
IC02	6	3.1	7	41	4.8
	7	1.3	7	. 51	1.4
	9-10	4.2	7	53	4.8
	11-12	3.0		54	1.0
į	13	1.6		64	4.8
į	15	0.1		71	0.7
į	16	1.6	1	73	4.8
	17	1.7			
	18	1.6	7		
	21-22	0	7		
	24	3.1	7		
	66	3.1	†		
	79-82	0	7		
	63	3.0	7		
	84-87	0	1		
	88	0.7	1		
	20.04	0.0	***		

9.0

Ó

3.1

1.5 3.1

0.1 3.1 3.1

1.5

4.8

0

1.3 1.5

4.8 4.8 4.8 1.4

1.0 1.4

4.8 1.2 4.8

92-93

132

156

157

160 164

175 1

8-9

11

62 72

38 39

IC04

Pin No. Ref.No.	(8) Base	(C) Collector	(E) Emilter
Q01	0.8	0	1.5
Q02/03	1.6	0	2.2
Q04	0.3		0.9
Q05/06	1.1	0	1.9

# B1 BOARD (2/3) \* MARK

Ret. No.	28WS3A	26WS3B	28WS3D	28WS3E	28WS3K	28W\$3U
C527	-	0.222MF	-	-		
R24	1.5K	1K	1.5K	1.5K	1.5K	1.5K
R25	1.5K	1K	1.5K	1.5K	1.5K	1.5K
F137	150	100	150	150	150	150
R38	150	100	150	150	150	150
R56	_	TOK	-		-	
F157	10K	_	10K	1DK	10K	10K

# B1 BOARD (3/3) \* MARK

Model Ref No.	28WS3A	28WS3B	28W\$3D	28WS3E	28WS3K	28WS3U
C3778	47MF	- "	47MP	47MF	47MF	47MF
C3790	100P	220P	1002	100P	100P	100P
D3703	R8411D	-	( RB411D	FB411D	R8411D	RB411D
Q3714	DTC114EKA	-	DTC114EKA	DTC1)4EKA	DTC114EKA	DTC114EKA
FI3736	47K	-	47K	47K	47K	47K
R3781	220	-	220	220	220	220
R3782	4.7K	+	4.7K	4.7K	4.7K	4.7K

Ref.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC3704	9-11	4.8	IC3713	1	2.4
	12	2.2	_	2	2.1
	13-14	4.8	1	3	2.0
	15	3.6	7	4-5	4,2
	16	4.8	7	6	1.3
	17-18	2.5	7	7	8.5
	19-20	4.8	7	8	5.0
	21	0.9	7	10	4.6
	24-26	0.\$	7	11-12	3.8
	27	2.3	7	14	2.0
IC3705	7	1,5	7	18-19	3.8
	9-10	4.6		21	3.9
	11	3.1	7	25	8.5
	12	2.4	7	26	3.6
	13	1,7	7		3.4
į	14-15	4.8	7	29	4.7
IC3706	1	2.0	۱ ۱	30	2.0
	2-3	1.6	1	31	1.5
	5-7	2.4	IC3714	3	0.3
	8	4.8	1	13-14	2.1
IC3707	1-2	3.1	7	16	4.8
	3-5	3.8			
	B	3.6	7		
	10	1.5	1		
	11	3.6	1		
	12	3.7	1		
- 1	13-14	3.8	1		
1	15	3.0	1		
- 1	16	4.8	1		
IC3708	1	3.1	1		
	2	2.2	1		
	3-4	1.5	1		
i	5-6	2.0	7		
i	7	0.4			
	8	3.8	7		
Ì	9	2.4	7		
[	26	3.1	7		
-	30	4.2	7		
Ī	31	4.2	7		
[	35-36	3.1	7		
	53	3.1	7		
	73	3.1	^		
[	108	3.1	1		
[	119	1.4	1		
	123	1.6	1		
[	124	0.1	1		
IC3709	1	5.7	1		
	5	1.3	7		
	9	5.7	1		
ļ	11-12	3.0	7		
	14	1.4	1		
	16	1.4	1		
1					
IC3712	1	4.2	1		
IC3712	1 2-3		1		

	_		
Pin No.	(B) Base	(C) Collector	(E) Emitter
Q3700	0	8.6	1.6
Q3701	2.2	8.B	1.6
Q3703	4.4	4.8	3.8
Q3704	3.1	4.8	2.5
Q3706	2.0	0.4	0
Q3708	0	8.8	2.4
Q3709	3.0	8.8	2.4
Q3710	2.4	8.8	1.8
Q3712/3713	3.7	6.8	3.0

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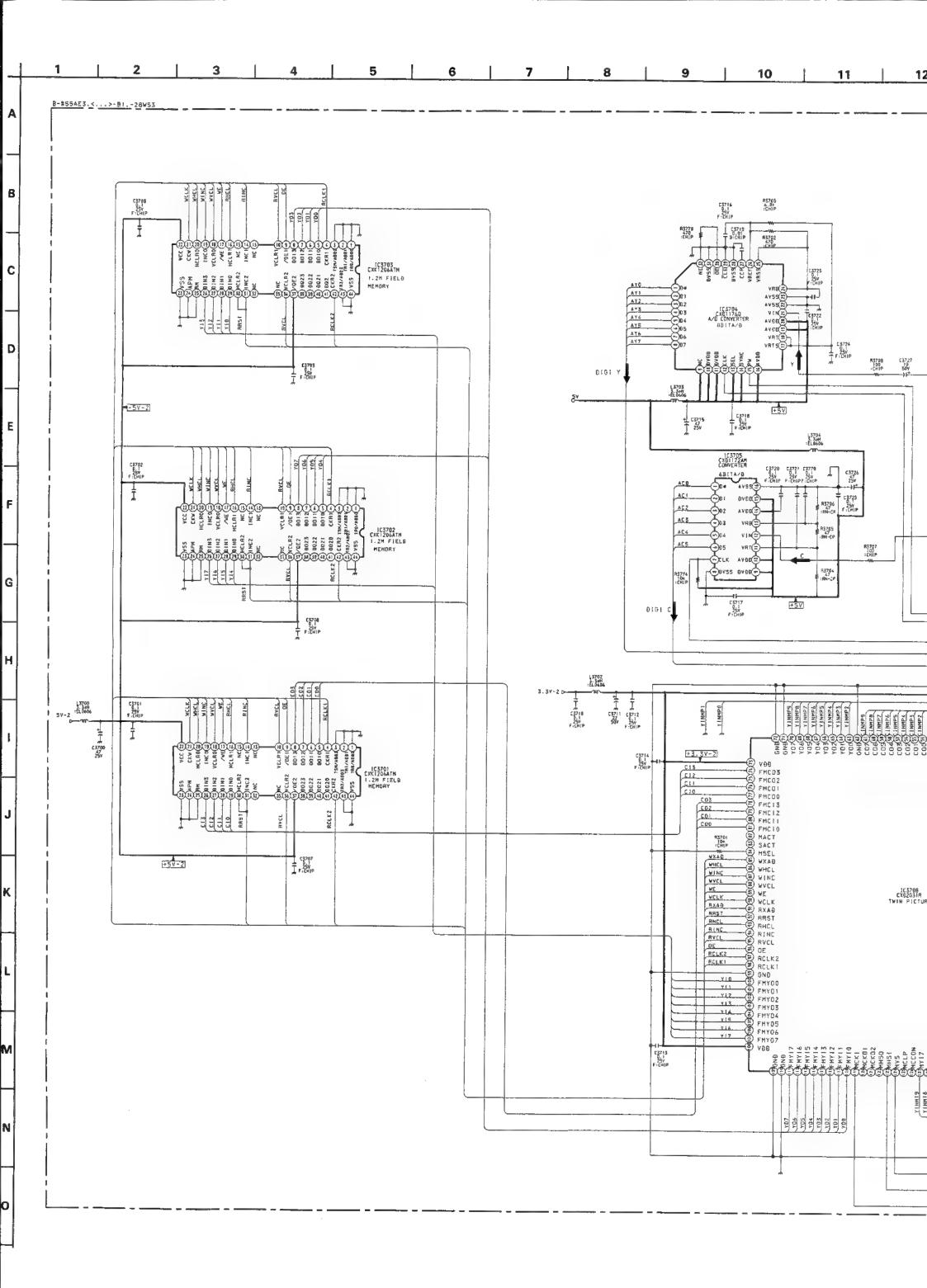
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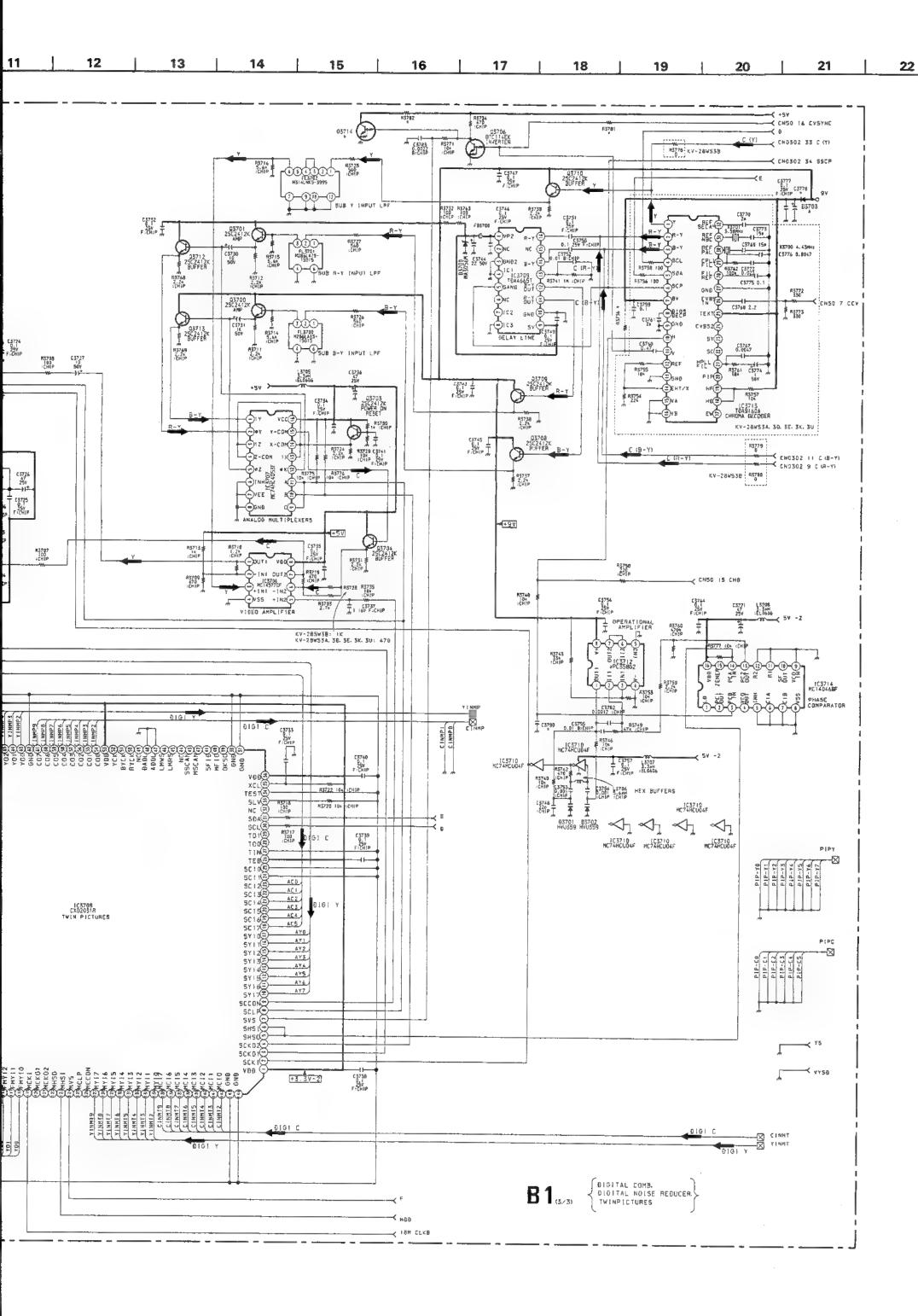
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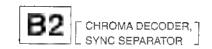
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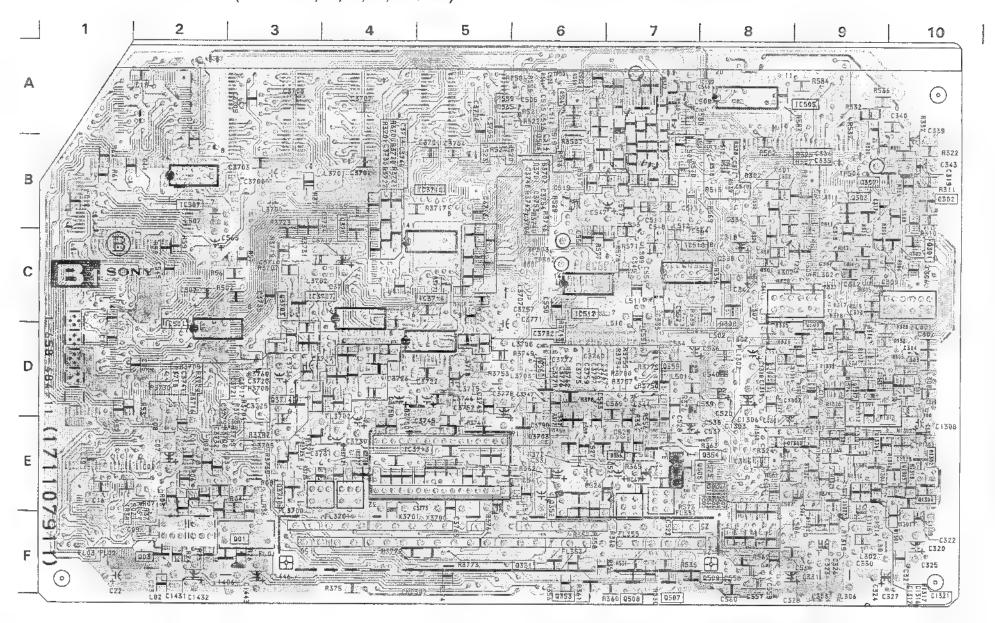




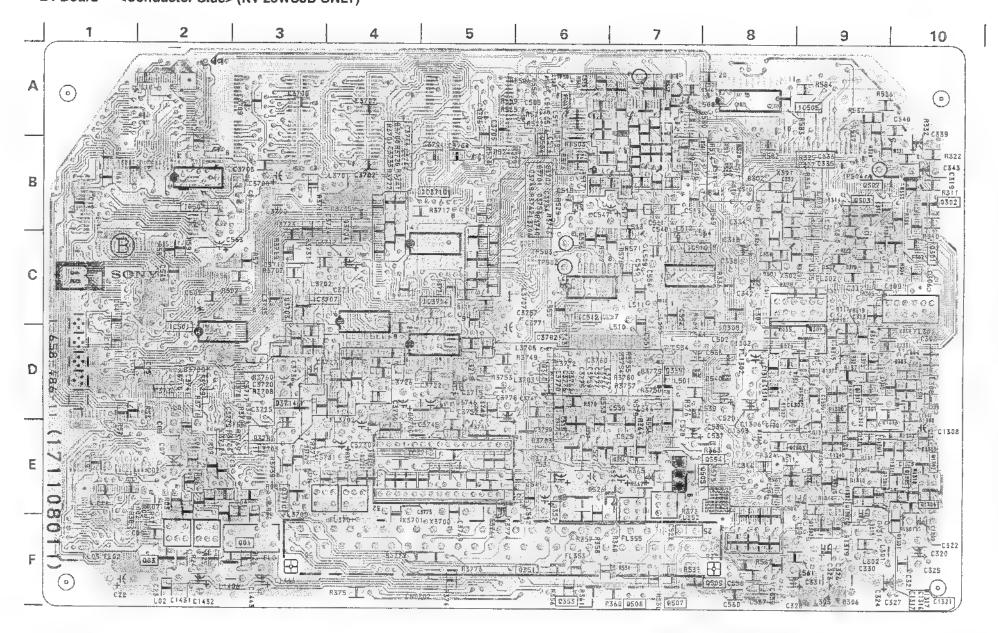




#### - B1 Board - <Conductor Side> (KV-28WS3A, 3D, 3E, 3K, 3U ONLY)

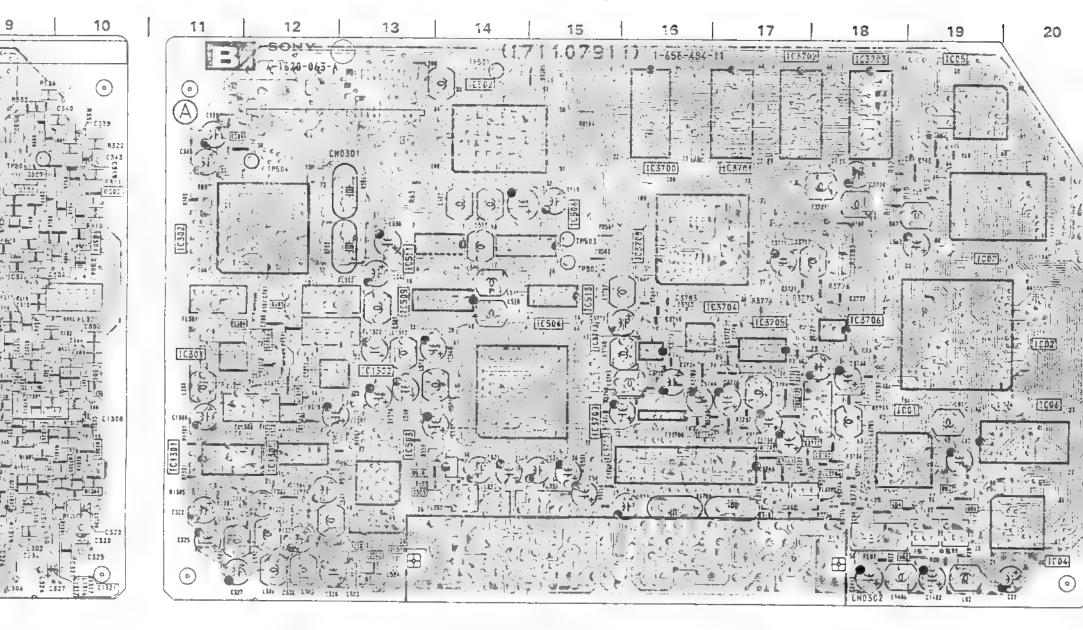


# - B1 Board - <Conductor Side> (KV-28WS3B ONLY)

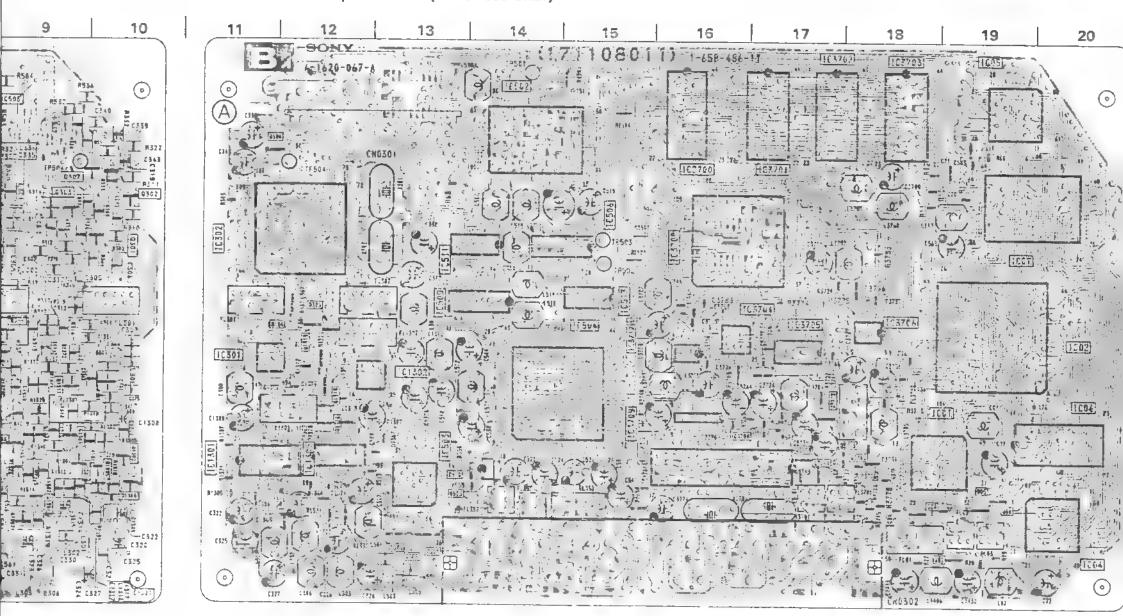


R130

### - B1 Board - <Component Side> (KV-28WS3A, 3D, 3E, 3K, 3U ONLY)



### - B1 Board - <Component Side> (KV-28WS3B ONLY)



# 18 19 20 1005 (1CD2 [Lot $\odot$

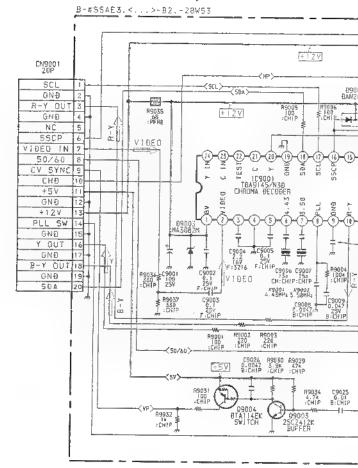
L IC	-	● Q354	E-8
ICO1   ICO2   ICO4   ICO5   ICO6   ICO7   ICO301   ICO302   ICO301   ICO302   ICO301   ICO302   ICO304   ICO305   ICO306   ICO3	D-19 D-20 F-20 A-19 D-20 D-11 C-11 C-2 A-143 D-15 A-9 B-15 B-2 C-13 C-6 C-13 C-6 C-13 C-17 C-18 C-17 C-18 C-17 C-18 C-17 C-18 C-15 B-5 D-15 E-4 C-5	● Q356 ● Q358 ● Q359 Q360 Q501 Q502 Q503 Q504 ● Q505 Q506 Q507 Q508 Q509 ● Q510 Q1301 Q1302 Q1303 Q1304 Q1305 Q1306 Q1307 Q1316 Q1317 Q1318 Q1319 Q3700 Q3701 Q3703 Q3704 Q3706 Q3708 Q3709 Q3710 Q3712 Q3713	E-7-6-7-6-13 F-13 B-8-6-7-7-8-13 E-10-10-10-12-12-13 E-116-17-3-17-18 E-116-17-3-17-18
TRANSIS	STOR	DIOE	E
Q01 Q02 Q03 Q04 Q05 Q06 Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q308 Q309 Q351 Q351 Q352 Q353	F-3 F-19 F-2 E-19 E-19 E-10 B-9 D-12 C-11 B-9 C-8 C-9 F-6 E-6	D01 D301 D302 D303 D1301 D1302 D1304 D1309 D3700 D3701 D3702 D3703	A-19 C-8 B-8 D-10 F-10 F-12 F-11 D-4 B-6 B-6

O mark: KV-28WS3A,3D,3E,3K and 3U only

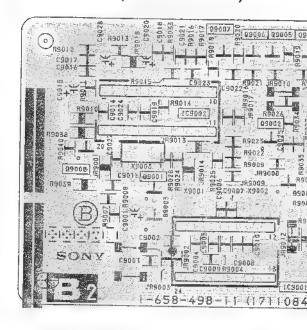
mark: KV-28WS3B only

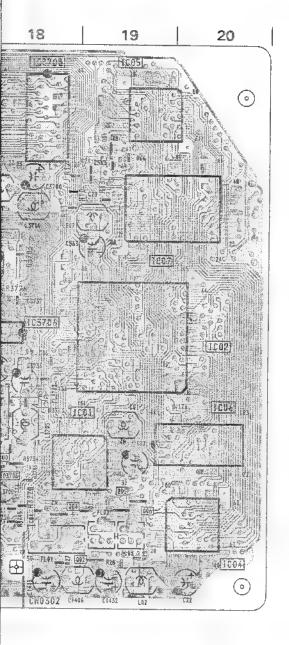
# (KV-28WS3B ONLY)

DRAGG A OT CNOIDE

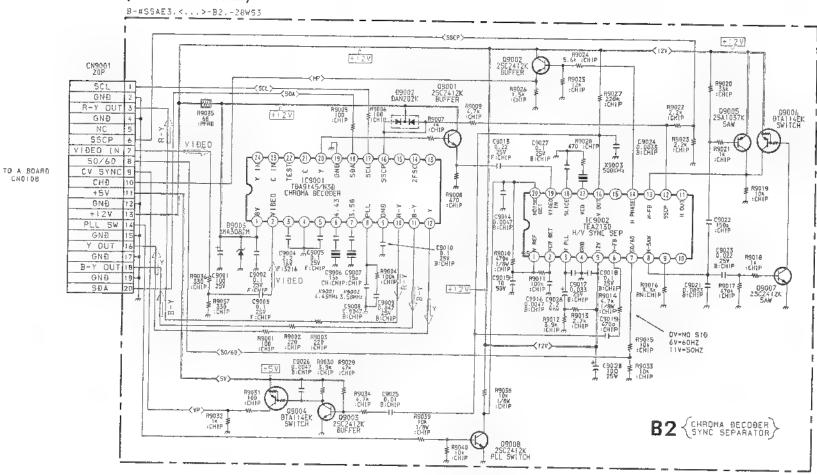


B2 Board — (KV-28WS3B ONLY)

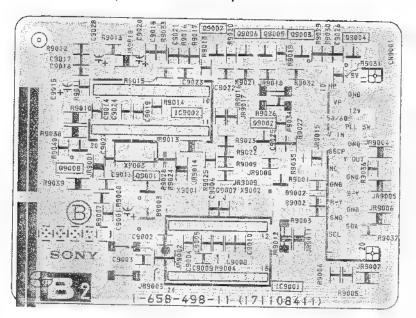




#### (KV-28WS3B ONLY)



#### B2 Board — (KV-28WS3B ONLY)



U only

Rel.No.	Pin No.	Voltage (V)	Ret.No.	Pin No.	Voltage (V)	Ref.No.	Pin No.	Voltage (V)
IC3501	6	0.1		13	0.4	1101,140.	72	4.8
103301	9	0.1	IC3508	14	0.3	-	73	1.3
	10	2.4		16	4.8	-	75	1.1
	11	4.8		1	4.8	-	88	4.6
	12	4.8		2-7	1.2	-	91-93	4.8
	14	0.5	-	9	1.2	-	107	4.8
	15	2.8	1	10	1.5	-	117	4.6
	16	2.4	1	11	0.9	400510		
	18	4.7	-	12	1.3	IC3512	4	2.4
	21	2.6	1	13	1.6	-		
	22	2.4		14	1.3	-	8-9	4.8
	23	4.7		16	4.8	-	11	4.0 4.8
	25	2,2	IC3509			-		
	25	0.5	10,3509	1	4.8	-	13	4.6
			l	2	0.9	_	14	1.5
	30	0.1	-	3	1.5	4	16	4.6
	42	4.4	-	4	1.2	4	17	0.1
	43	4.8	-	5	1.3	4	20	4.6
	56	4.8	1	- 6	1.6	_	21	2.5
	57	1.4	1	7	1.3	_	35	4.6
	59	4.2		9	1,2		44	4.6
	61	4.8		10	1.5	IC3513	1	4.8
		4.8	ļ	11	0,9		3	4.8
	26	0.5		12	2.4	_	В	4.6
	27-29	-	ļ	13	3.0		9	2.3
	61	6.3		14	1.6		10	2.3
	62	4.2		16	4.8		12	1.7
IC3503	22	4.8	IC3510	1 "	4.8	]	21	4.8
	23	4.3		4	0.1		23	4.8
	24	4.3	J	5-6	2.3	]	30	2.3
	28	4.8	IC3511	7	1.5	]	31	2.3
#C3506	1	4.8		9	1.6		36	3.9
:	2	1.2		10-11	2.3		37	3.8
	3	2.1		12	4.3		39	4.8
!	4	1.6		13	4.B	1	46	4.8
	5	1.2		14	4.2	]	48	1.2
	- 11	2.2		16	4.8		50	4.6
	7	1.6		3	1.6	7	51	4,2
ļ	9	1.6		5	1.8		55	4.8
	10	2.0		8	4.8		57	4.2
	11	1,1		11	4.8		59	1.0
	12	1.6		13	4.8	]	60	1.8
	13	2.0		15	4.8		64	4.8
	14	1.1		17	2.4	7	71	4.6
	16	4.5	]	19	4.8	]	77	4.8
IC3507	1	4.8		22	4.8		79	4.6
	2	1.3	:	25	4.2	7	80	1.3
	3	2.4		28	1.6	1	89	4.8
	4	2.0		27	1.6	7	98	4.8
	5	1.2		28	4.8	1	99	4.8
	6	2.0		29-30	1.2			
	7	1.7		34	4.B	7		
	₽	1,4	]	44	4.8	1		
	10	1.5	]	58	4.6	1		
İ	11	0.9	1	63	4.8	1		
ľ	12	0.5	1 1	71	4.8	All Vol	Poec ace wed	icated = Volts DC

Rel.No.	Pin No.	Voltage (V)
IC3514	3	4,2
(C3515	5	1.6
l	23	1.6
	25	1.2
	28	₹.8
IC3516	6	1,6
IC3517	7-8	6.1
	10	D.1
	11	3.0
	13	1.6
	23	3.2
	36-38	3.2
	40	3.2
	53	3.2
	62	2.2
	79-61	D.1
	83-84	3.0
	85	1.6
	B7-88	3.2
	90	0.1
	93	0.1
	<b>■</b> -99	
IC3520	1	0.1
103520	<u> </u>	
	3	0.1
	8	4.8
	15	4.8
	17	4.8
	23 34	4.8
	35	1.4
	38-39	4.8
	43	2.4
IC3521	1	1.8 0.5
103021		
	2-3	4.8
	8	1.2
	9-10	4.0
	11	1.5
IC3525	14	4.6
103525	6-7	3.8
	11-12	0.1
	13-14	3.0
	15-18	0.1
	20	4.8
IC3527	9	1.7
	12-18	6.1
	20	4.8
IC3528	1-2	4.8
	3	2.3
	6	2.3
	9	0.1
	12	0.1
	14	41
	16	4 8

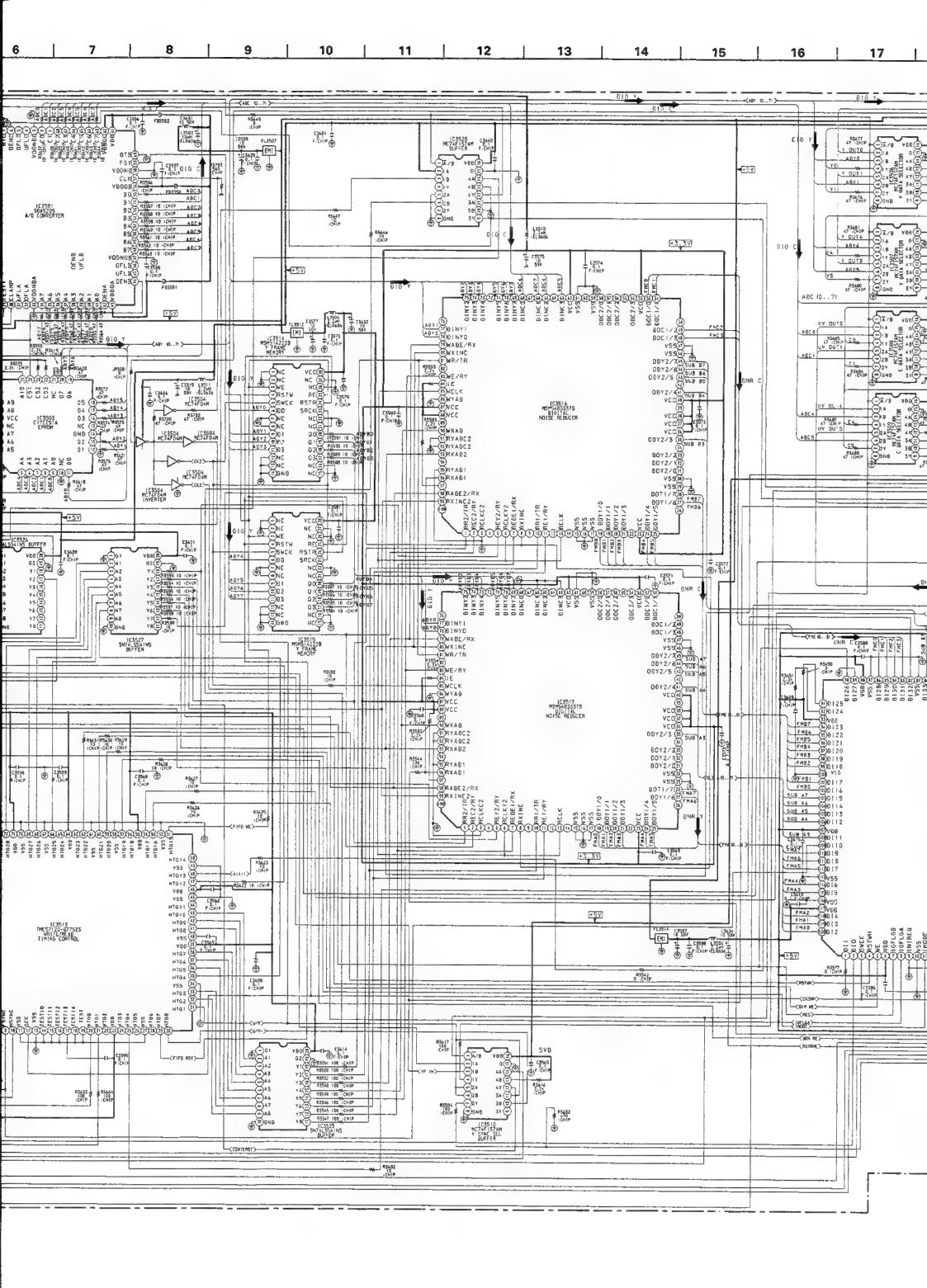
Pin No.	(B)	(C)	(E)
Ref.No.	Base	Collector	Emitter
Q3501	5.2	12.0	4.6
Q3502	2.5		3.1
Q3503	-	0	
Q3504	5.2	12.0	4.6
G3505	5.6	12.0	5.0
Q3506	2.5	0	3.1
Q3507	3.1	4.7	2.4
Q3510		0	0
Q3512	3.8	0	0
Q3513	2.5	0	3.1

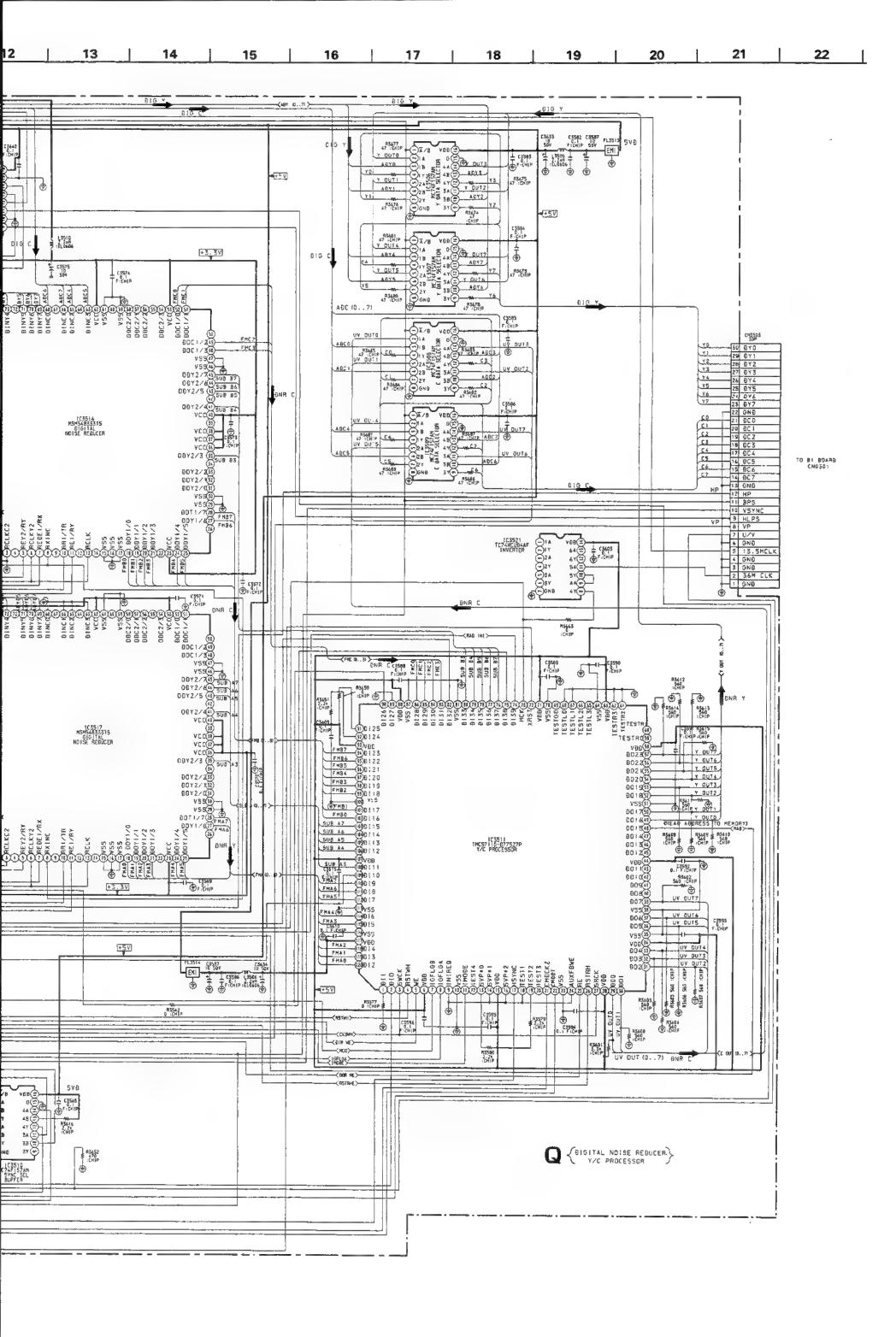
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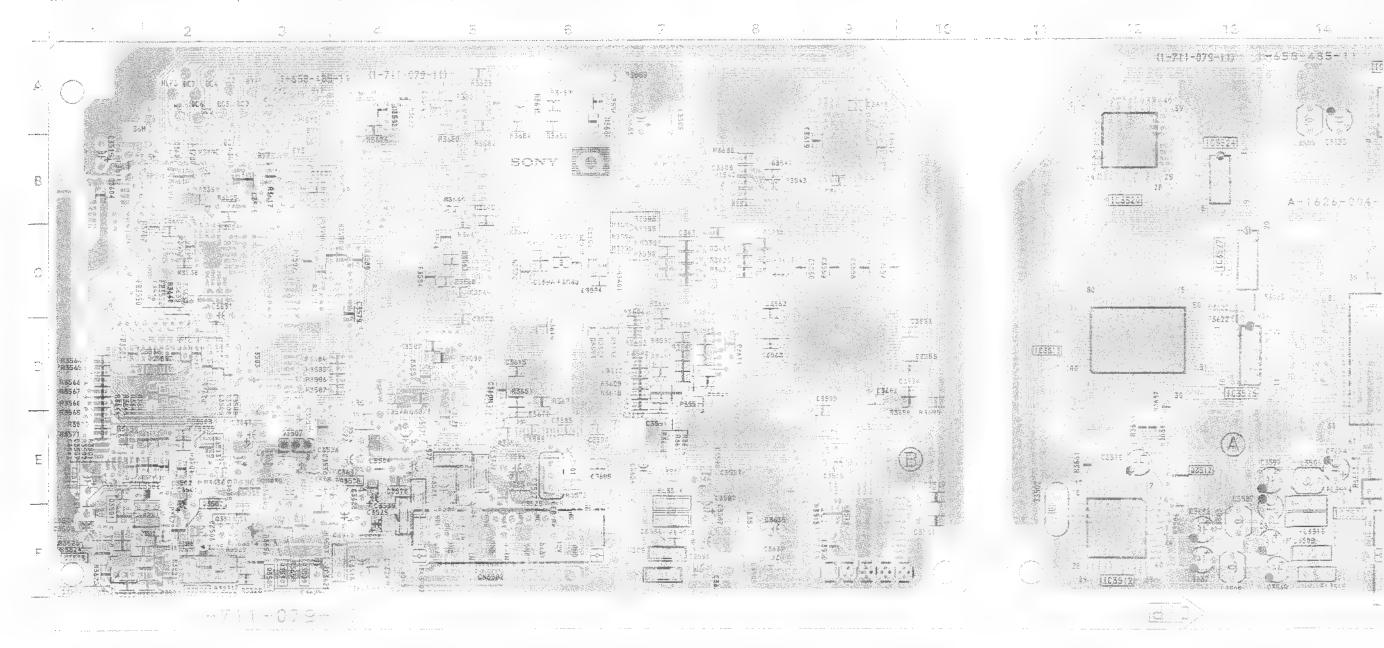




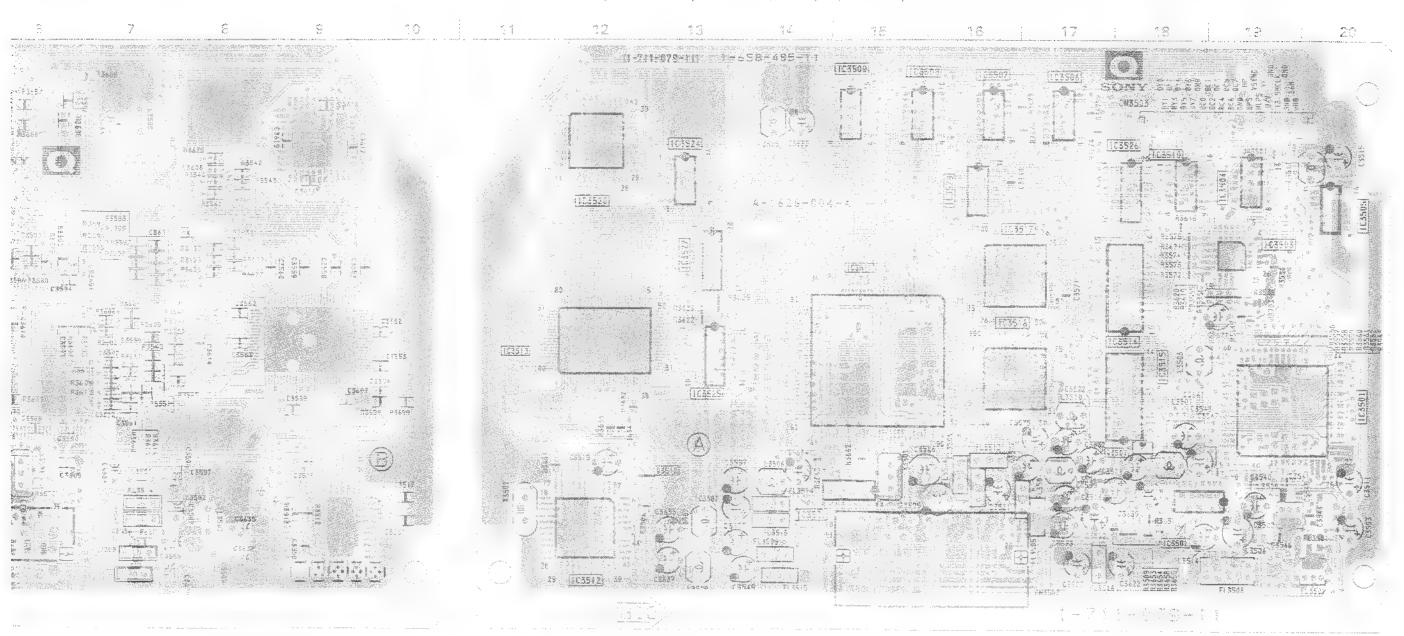


— Q Board — <Conductor Side> (KV-28WS3A, 3D, 3E, 3K, 3U ONLY)





- Q Board - <Component Side> (KV-28WS3A, 3D, 3E, 3K, 3U ONLY)



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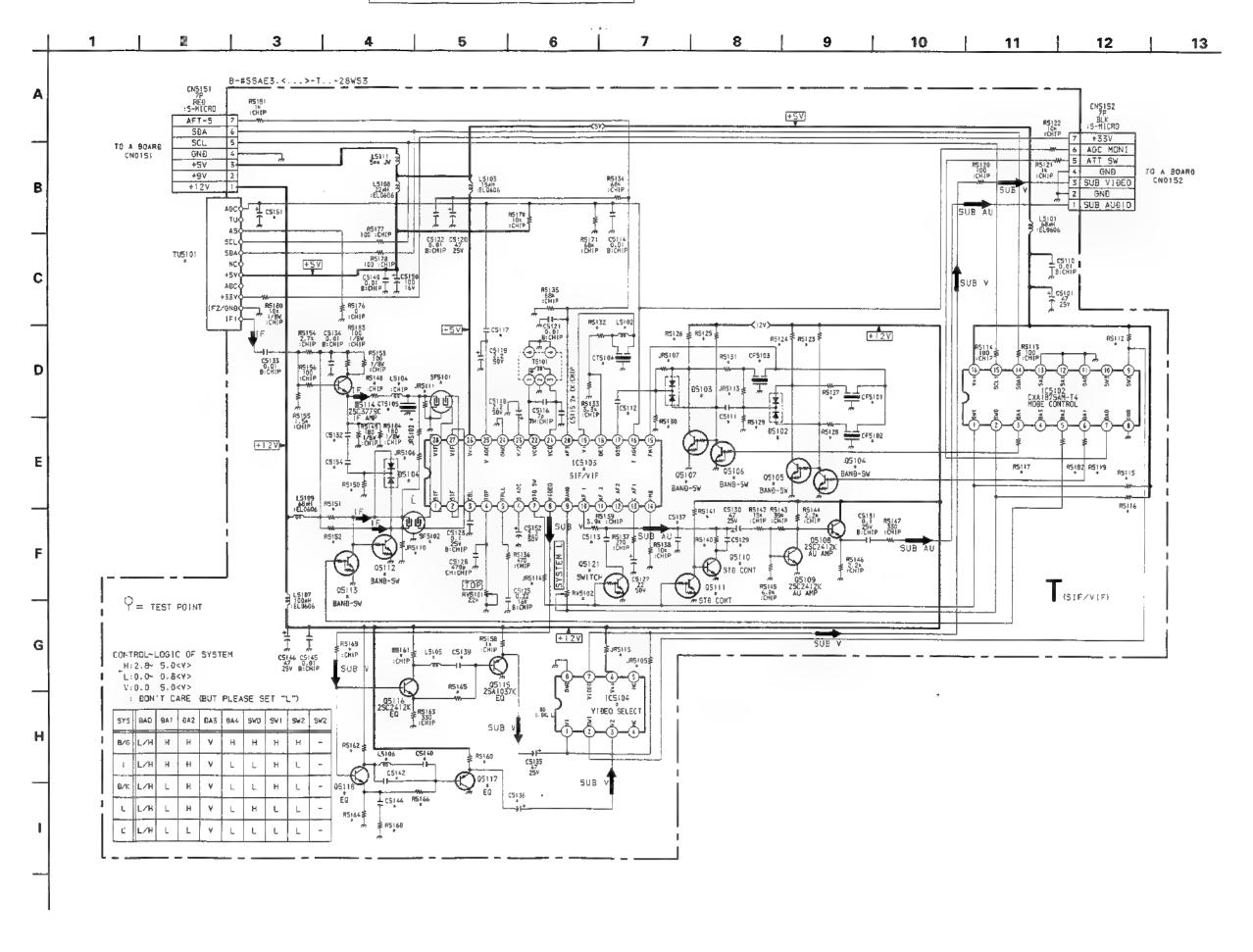
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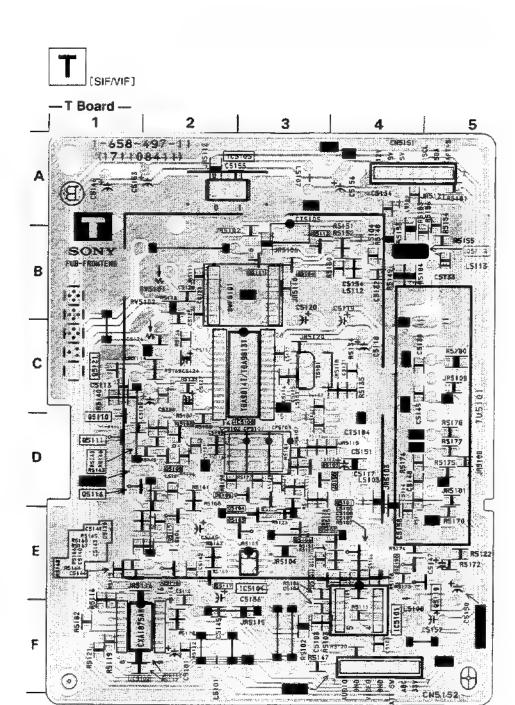
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C5136	-	47MF 25V	-		-	-
C5137	0.01aMF	-	0.018MF	0.018MF	0.018MF	0.018MF
C5139		100P	_	-	_	-
C5140		68P	-	-	-	-
C5142	-	33P	-	-	-	-
C5144	-	15P	-			-
C5151	10MF 50V	100MF 16V	10MF 50V	10MF 50V	10MF 50V	10MF 50V
C5154	-	0 : CHIP	-	-	-	-
CF5101	5.5MHz	6.CMHz	5.5MHz	5.SMHz	5.5MHz	<u> </u>
CF5102	-	FILTER	-	-	-	-
CF5103	-	5 SMHz	-	-	-	6.0MHz
CT5104	5.5MHz	5.5MHz	S.SMHz	5.5MHz	5.5MHz	6.0MHz
CT5105		TRAP	-	-	-	-
05102	DAN202K	DAN202K	DAN202K	DAN202K	DAN202K	_
D5103	-	DAN202K	-	-	-	-
D5104	79	DAN202K	-			
C5103	TDA9813T	TDA9814T	TDA98137	TDA9813T	TDA98: 3T	TDA9813T
C5104	-	NJM22338M	-	-	-	
JR5102		0 : CH#F	_		_	
JR5102	O : CHIP	0; 6142	0:CHIP	0 : CHIP	O.CHIP	0 · CHIP
	O: CHIP	-	# : CHIP	0 : CHIP	0 CHIP	O CHIP
JR5106	0: CHIP				II : CHIP	0 CHIP
JRS107			0 : CHIP	0 : CHIP 0 : CHIP		
JR5110	0 : CHIP	-	0 : CHIP		0 . CHIP	III CHIP
JR5111	0: CHIP	-	# : CHIP	0 CHIP	0 : CHIP	iii CHIP
JRS113	0 : CH(P	-	0 ; CHIP	0 : CHIP	0 : CHIP	0:CHIP
JR5114		a: CHSP	-		-	
JR5115	-	0:CHIP	-	-	-	-
L5102	8.2µH	6.8µH	8.2pH	8.2µM	В.2µH	6.8µH
L5104	JW	0.22µH	JW	JW	JW	JW
L5105	-	ŧQμΗ	-	-		-
L5106	-	39µH	-	-	-	-
Q5104	DTC144EKA	DTC144EKA	DTC144EKA	DTC144EKA	DTC144EKA	
Q5105	DTC144EKA	DTC144EKA	DTC144EKA	DTC144EKA	DTC144EKA	-
Q5106		DTC144EK4	-	-	-	-
Q5107	-	DTC144EKA	-	-	-	-
Q5110		2SC2412K	-	-	-	_
D5111	-	DTC144EKA		-	-	-
Q5112		DTC144EKA	-	-	-	
Q5113	-	DTC144EKA	-	-	-	-
Q5117		25A1037K	-	-	-	-
O5118	-	2SC2412K		-		-
Q5121		DTC144EKA	_	_	1	1
R5112					1 - 1	
11071110	-		-	_	-	-
95115	-	10K	-		-	
	-	10K		- -	-	-
A51†B	-	10K 10K 10K	-		*	-
A5118 A5117	-	10K 10K 10K 11C	- - -	-	÷	-
A5118 A5117 A5119	- - - 1K	10K 10K 10K 16K 18C	- - - 1K	- - - 1K	- - - 1K	-
R5115 R5118 R5117 R5119 R5123	- - 1K 2.2K	10K 10K 10K 1K 1K 1K	- - 1K 2.2K	- - 1K 2.2K	- 1K 2.2K	
A5118 A5117 A5119 A5123 A5124	1K 2.9K 2.2K	10K 10K 10K 11K 11K 2.2K 2.2K	- - - 1K 22K 22K	- - 1K 2.2K	1K 2.2K 2.2K	-
A5118 A5117 A5119 A5123 A5124 A5125	1K 2.2K 2.2K	10K 10K 10K 1K 1K 2.2K 2.2K 2.2K	- - - 1K 22K 22K	- - 1K 2.2K -	1K 2.2K 2.2K -	-
A5118 A5117 A5119 A5123 A5124 A5125 B6126	1K 22K 22K -	10K 10K 10K 1K 1K 2.2K 2.2K 2.2K	1K 22K 22K	1K 2.2K 2.2K	1K 2.2K 2.2K	-
R5118 R5117 R5119 R5123 R5124 R5125 R6126 R5127	1K 2,2K 2,2K 2,2K	10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 2.2K		- 1K 2.2K 2.2K		
95118 95117 95119 95123 95124 95124 95125 96126 95127 95128	1K 2.36C 2.2K 580 550	10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 2.2K 580 560	- 1K 2.2K 2.2K 560 560	1K 2.2K 2.2K 2.2K 	1K 2.2K 2 2K 550 550	
A5118 A5117 A5119 A5123 A5124 A5125 A5126 A5127 R5120 R5129	1K 2.36 2.2K - 580 560 2.2K	10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 2.2K 560 560	- 1K 2.2K 2.2K 660 560 2.2K	- 1K 2.2K 2.2K - 560 560 2.2K	1K 2.2K 2 2K 550 590 7.2K	
A5118 A5117 A5117 A5119 A5123 A5124 A5125 A5126 A5127 R5128 R5129 R5130	1K 2.2k 2.2k 2.2k 	10K 10K 10K 11K 1K 2.2K 2.2K 2.2K 2.2K 560 560 2.2K	- 1K 2.2K 2.2K		- 11K 2.2K 2.2K 2.2K 500 500 2.2K	-
R5118 R5117 R5119 R5123 R5124 R5125 R6126 R5127 R5128 R5129 R5130 R5131	- 1K 2.2K 2.2K 580 560 2.2K 0 : CHIP	10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 2.2K 2.2K		- 1 1K 2.2K 2.2K	- 11K 2 2K 2 2K 550 590 2.2K - 10 ; CHIP	
R5118 R5117 R5119 R5123 R5124 R5125 R6125 R6126 R6127 R5129 R6130 R5131 R5132	1K 2.2k 2.2k 2.2k 	10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 580 560 2.2K 2.2K 2.2K	- 1K 2.2K 2.2K		- 11K 2.2K 2.2K 2.2K 500 500 2.2K	-
R5118 R5117 R5119 R5123 R5124 R5125 R6125 R6126 R6127 R5129 R6130 R5131 R5132	- 1K 2.2K 2.2K 580 560 2.2K 0 : CHIP	10K 10K 10K 1K 1K 2.2K 2.2K 2.2K 2.2K 580 560 2.2K 2.2K 580 560		- 1 1K 2.2K 2.2K	- 11K 2 2K 2 2K 550 590 2.2K - 10 ; CHIP	
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75118 75117 75119 75119 75119 75123 75123 75125 75126 75127 75120 75120 75130 75131 75130 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 751311 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131 75131		10K 10K 10K 11K 11K 2.2K 2.2K 2.2K 2.2K 580 560 2.2K 2.2K 580 120 120 120 15.5K 10K 47 2.2K 2.2K 2.2K 3.0 3.0 3.30 3.30 3.30 3.30 3.30 3.30				660 180 180 

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<b>A</b>	CNS 15 7P RED S-MICE AFT - S-DA TO A BOARD SCL	10   R5181   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k   1 k	728WS3		
В	CN0151 GN8 +5V +9V +12V	AGC	1.5(11 g) 5aa Jy 9 1.5(08 g) 72a4 g) 1.10606	2510 27 : EL06	-
c	<b>រ</b> ប្រក្បូ <b>ត</b> ។	A5\$ ##  SCL\$  50A\$  NE\$  +5\(\frac{1}{2}\)	RS177 100 :CHIP W	C5122 C5120 0.01 47 B:CHSP 25V	R5:770 10 € :CNIP
		#35 V #5180 F2/GNEO #5180 IF1	#5176 0 0 : CHIP 75134 100 0.01 1/36/ BICHEP : CHIP	F5V	AST 35 45 86 15 16 16 16 16 16 16 16 16 16 16 16 16 16
D		C5133 0.01 P5156 100 CHIP	RS198 100 100 100 RS148 LS104 IF :CHIP :CHIP 25114 CTS105 2SC3779C 2	5F5101	5118 C5116
E		- 12V)-	R5139 R5184   R5182   R5184   28 27 28 - 28 04 10 4 10 4 10 4 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10		
F		1.5109 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104 15104	R5152	SF510Z CS1ZX // P5110 B:CHIP	\$ C5152
	P= TEST POINT	1.5107 3 100ah 3 600ah 3 600ah	Q5:12 BAND-SW BAND-SW	C5128 T 4701 H: CHP P TOP 2751 O F	] :ĈHIP JR\$1;4≹ (5);2\$
G	CONTROL~LOGIC OF SY H:2.8~ 5.0 <v> L:0.0~ 0.8<v> V:0.0 5.0<v></v></v></v>	27 0.01 25V B:CHIP	<b>†</b>   0	· in -1i - (	P 1 15115 A1037K
н	SYS DAG DAI DAZ DA	_	92   05116 25C24128	* RS143 \$ 530 \$ 541P S	CO I SK L
	1 L/H H H V  6/K L/H L H V	L L H L	05118 C5142 - 05118 C5144 - R5164 ■ C5144	0 511	7 (5)35 7 25v
	C L/H L L V	L L L L	, # \$ R5168		- —

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#### T BOARD

IÇ		
IC5102 IC5103 • IC5104	D-3	
TRANSI	STOR	
○ Q5104 ○ Q5105 ● Q5106 ● Q5107 Q5108 ● Q5110 ● Q5111 ● Q5112 ● Q5113 Q5114 Q6115 Q5116 ● Q5117 ● Q5121	D-2 E-3 D-4 D-2	
DiOI	DE	
O D5102	D-3 D-4 B-3	
VARIABLE RESISTOR		
RV5101 • RV5102		

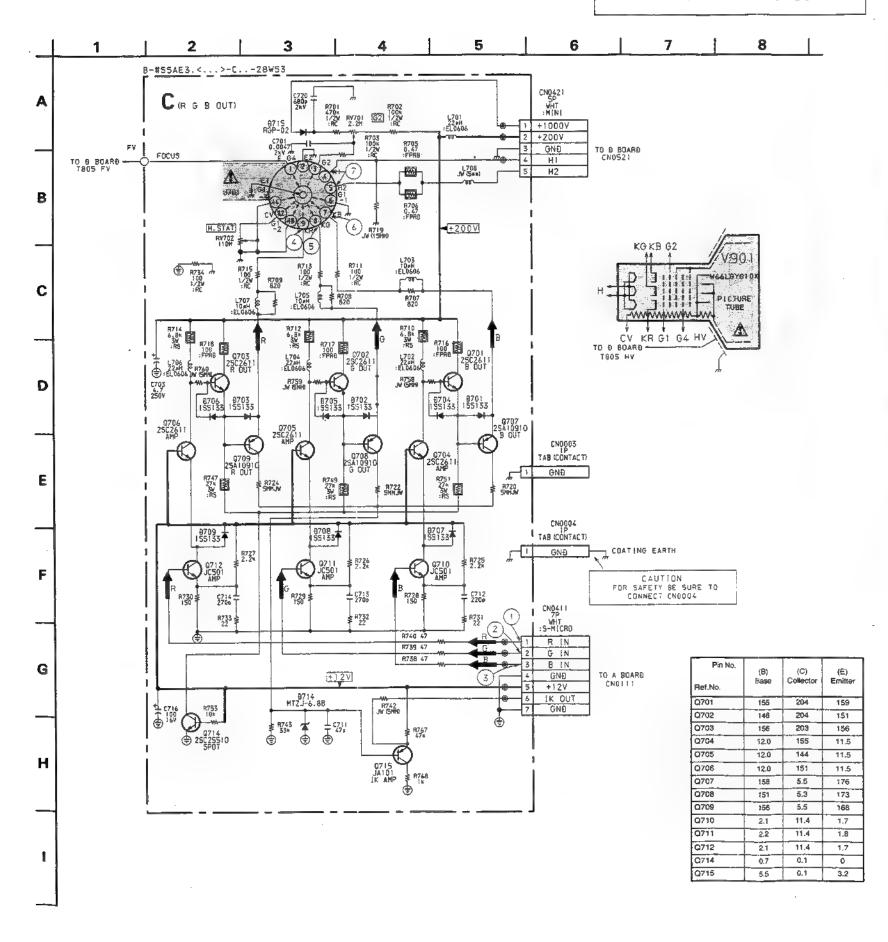
mark: KV-28WS3A,3B,3D,3E and 3K onlymark: KV-28WS3B only

Ref.No.	Pin Na.	Voltage (V)
IC5101	1	2.0
	3	0.6
	4	5.0
	6	2.3
	7	5.0
	8	2.0
IC5102	1-2	2.7
	3-7	4.6
	9	2.7
	14	5.0
	15	4.0
	16	5.0
ICS103	1-2	3.2
	4	1.0
	5	2.0
	6	2.8
	8	2.1
	10	2.6
	13	2.1
i	14	1.7
	15	2.6
	16	0.9
	17	2.0
	18-19	1.8
	20	3.3
	21-22	2.7
	27-28	3.2

Pin No.	(8) Base	(C) Collector	(É) Emitter
Q5101	4.3	4.8	5.0
Q5102	4.8	0	0
Q5103	0	2.7	0
Q5104	4.5	0	0
Q5 <b>10</b> 5	0	6.2	0
Q5108	4.6	12.0	4.0
Q5109	0.6	4.6	0
Ω5114	3.8	10.2	3.0
Q5115	1,5	2.1	2.0
Q5116	2.1	12.0	1.4

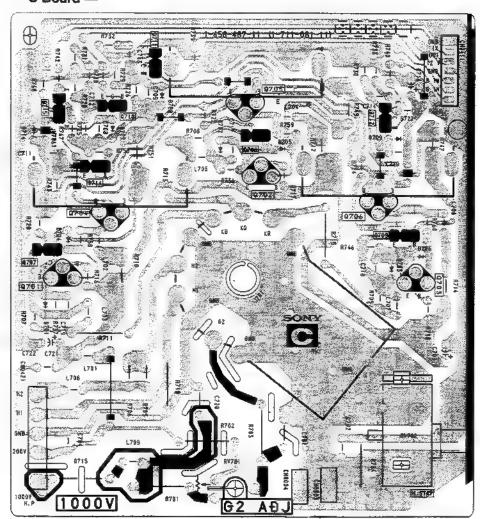




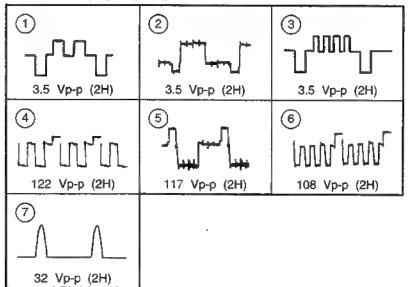


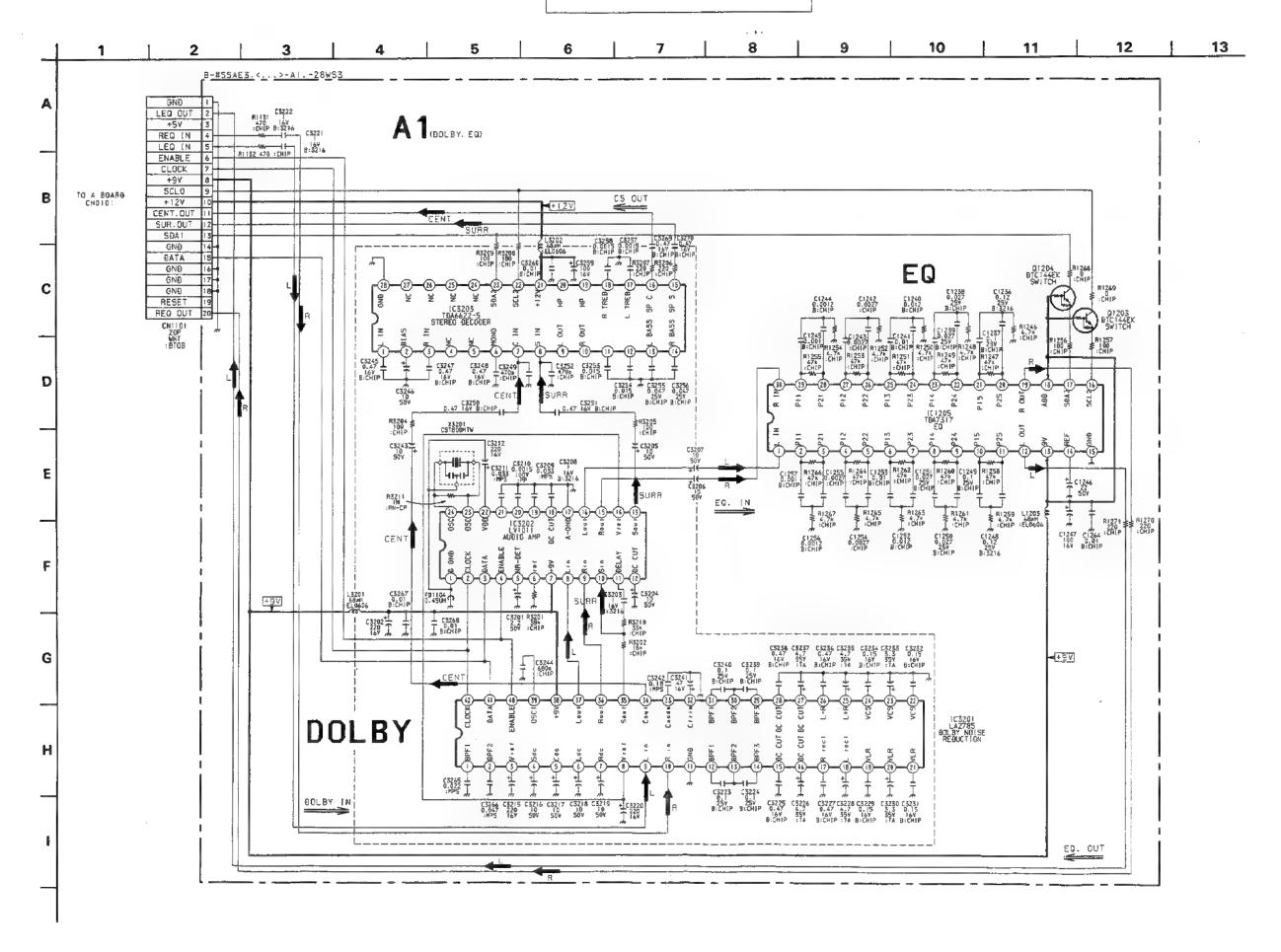


### — C Board —



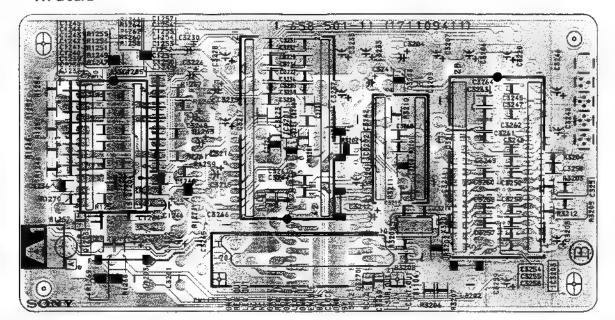
#### **WAVEFORMS C BOARD**





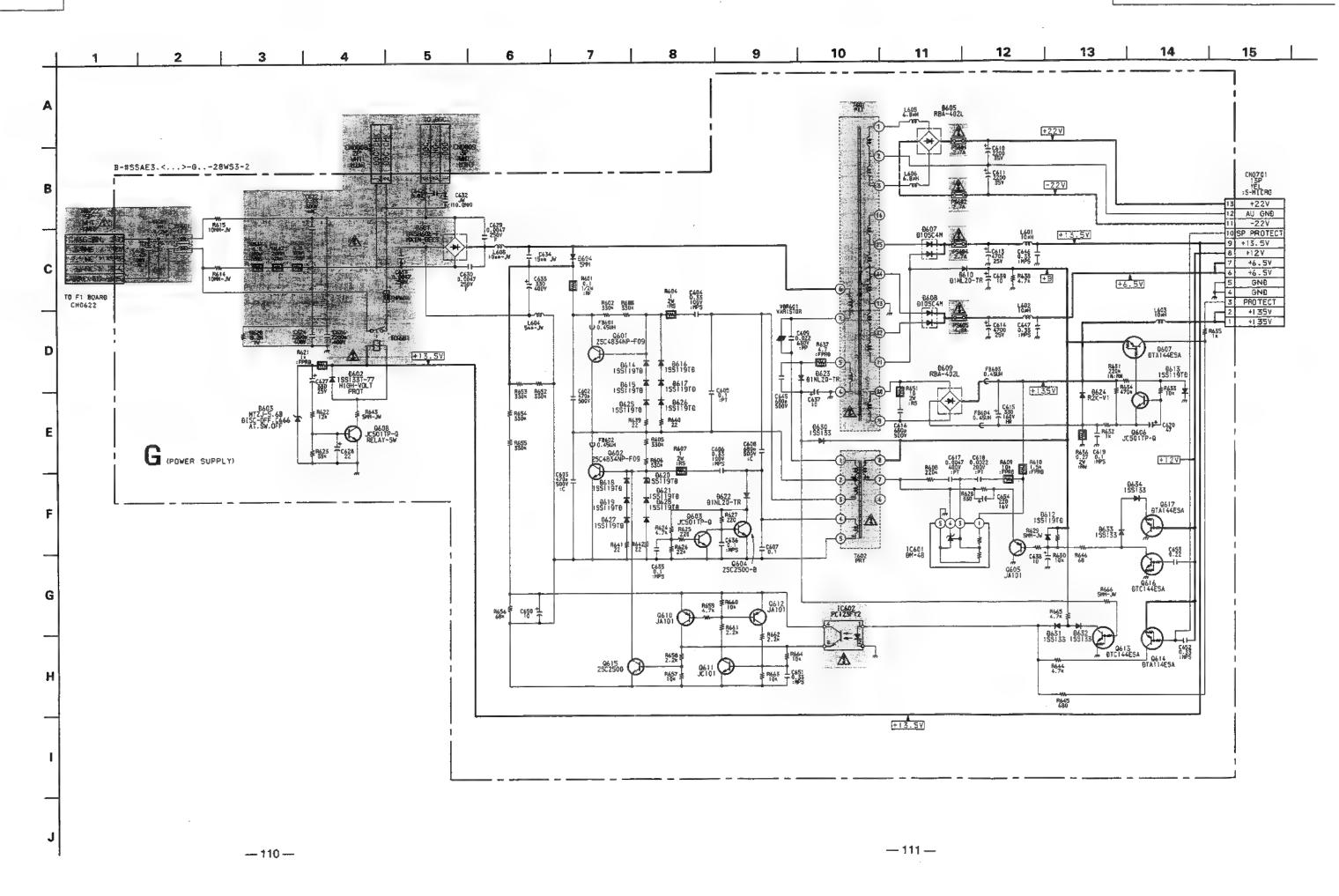


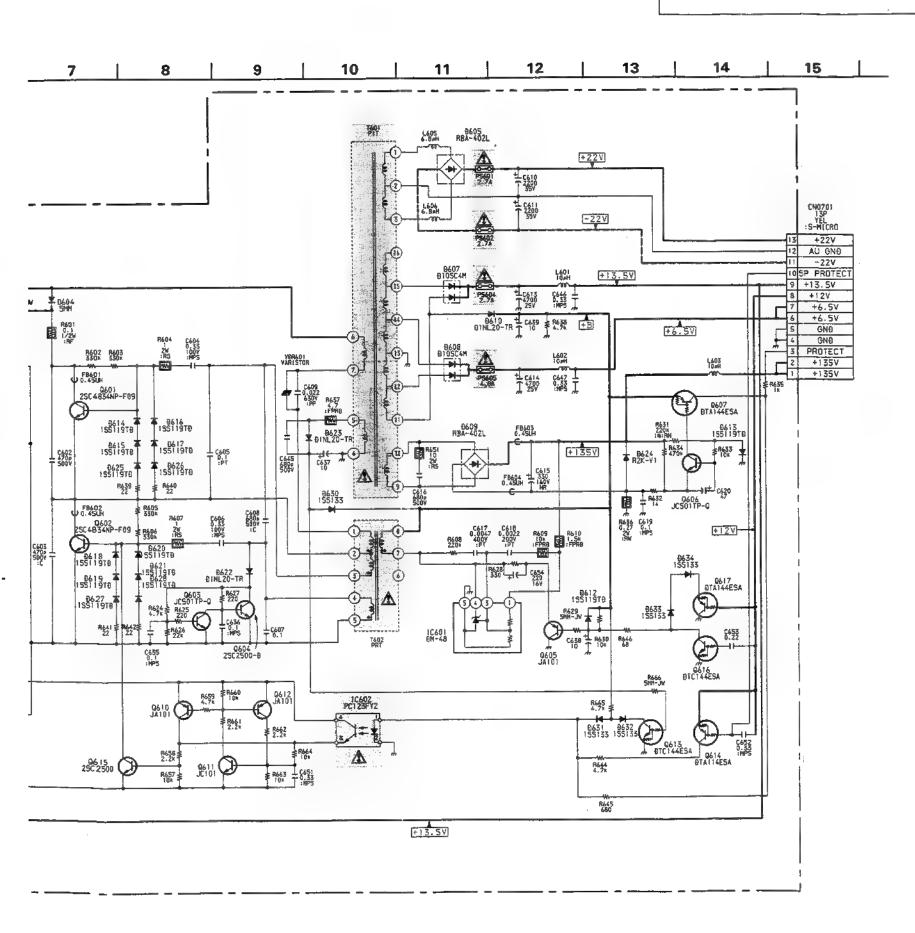
# — A1 Board —



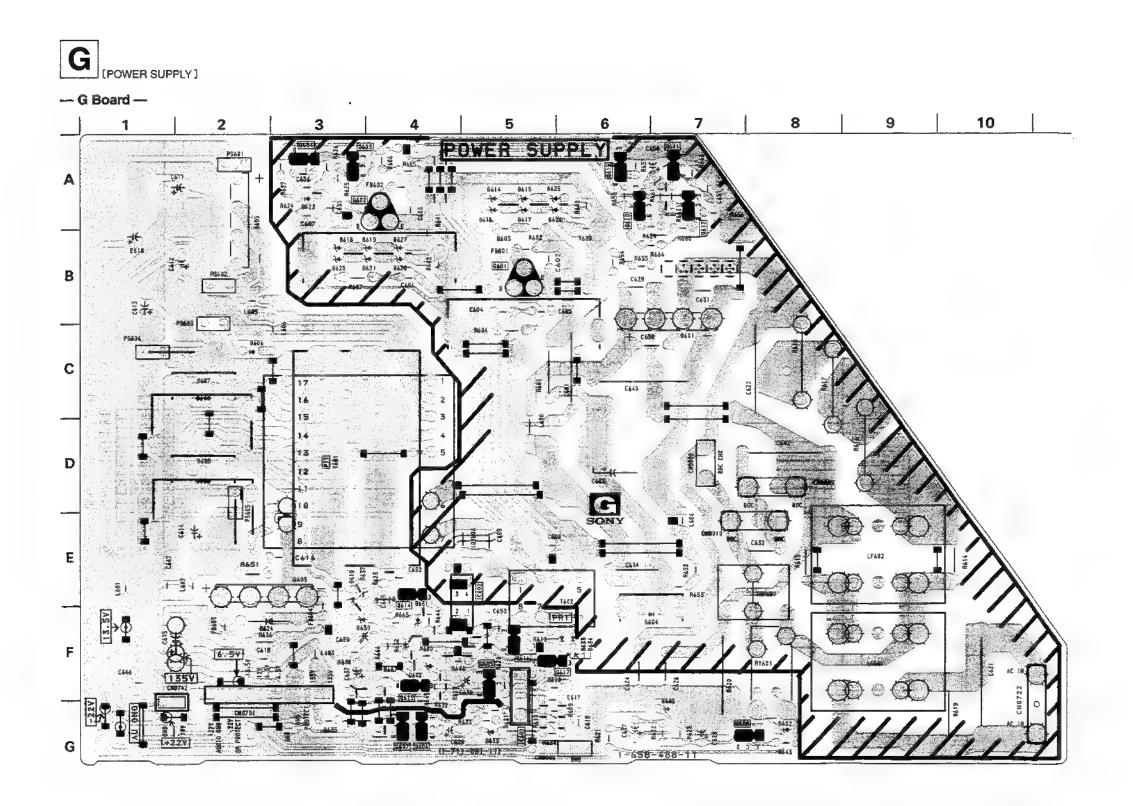
IC3201	1-10	4.4
	12-15	4.4
	16	5.1
	17	4.4
	18	5.1
]	19-21	4.4
1	22-24	2.3
	25	5.2
	. 26	4.3
	27	5.0
	28-37	4.3
	38	B.6
	40	4.8
	41	4.0
	42	5.0
IC3202	2	5.0
	3	4.0
	4	5.0
	5	3.1
	6	0.7
	7	8.6
	8-16	4.3
	18-21	4.3
	22	4.7
ļ	23-24	2.3
iC3203	1-3	6.0
	6-8	6.0
ļ	11-14	6.0
	15-16	5.3
	17-18	6.0
	21	12.0
ĺ	22	4.0
	23	5.0
IC1205	1-12	4.4
1	13	8.8
	=	4.4
	16	4.0
	17	5.0
	18	8.8
	19-30	4.4

Pin No.	(B) Base	(C) Collector	(Ē) Emitter
Q1203	8.8	4.0	4.0
01204	B.B.	5.0	5.0

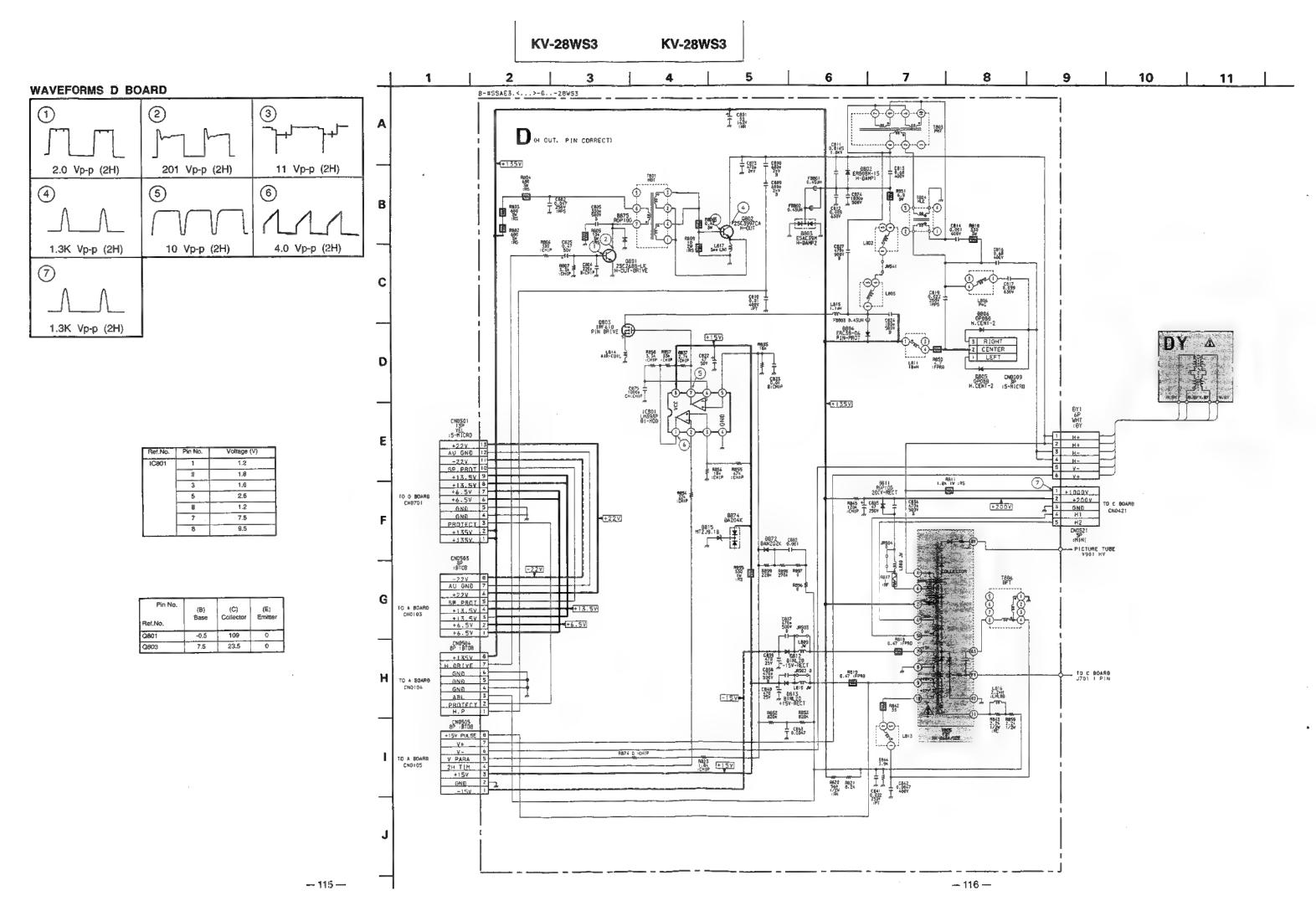


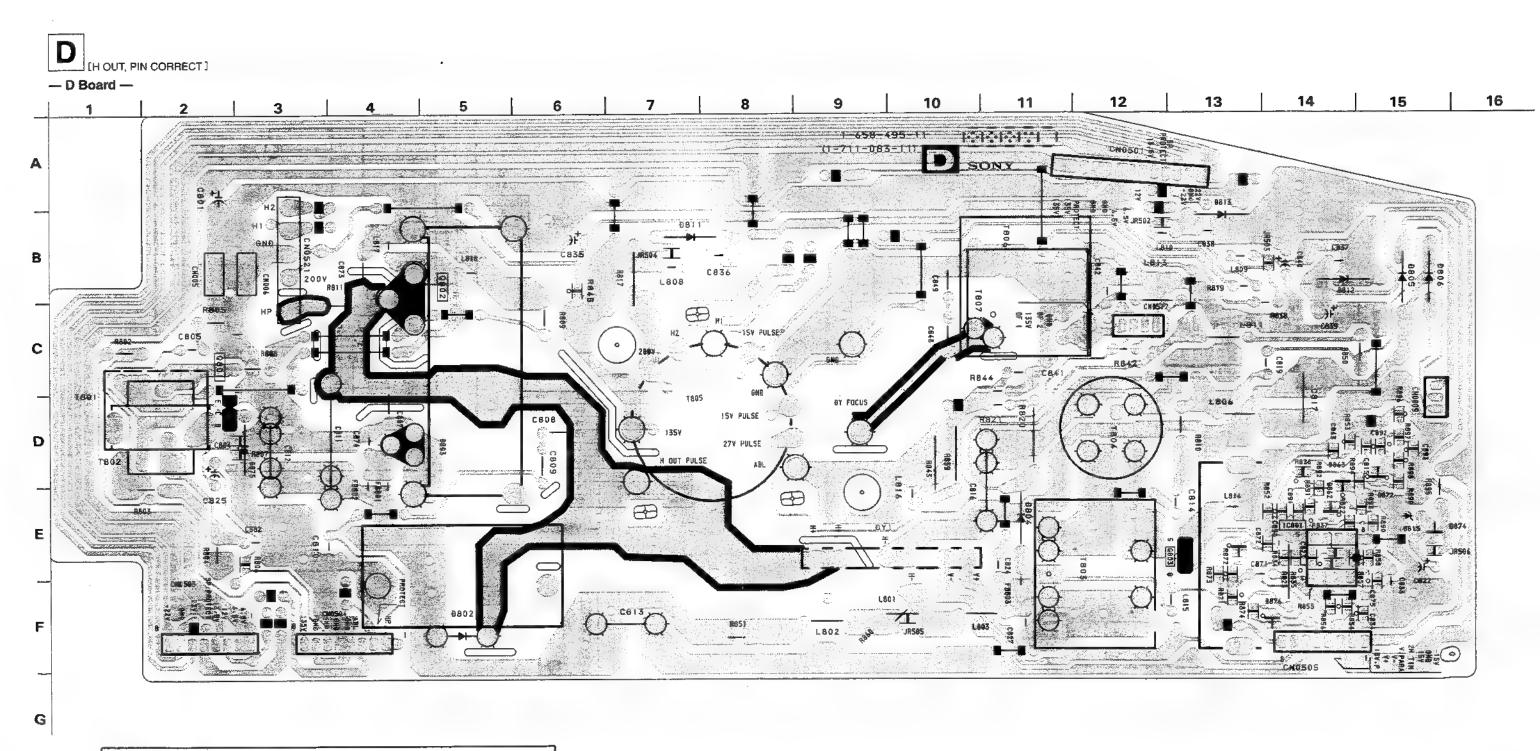


Pin No.	(B)	(0)	(E)
ef,No.	Base	Collector	Emitter
601	-1.3	84.5	-0.1
602	-86	-0.1	-85
603	-84.5	-84.8	-85
604	-85.0	-84.3	-85
605	13.3	0	10.7
606	0.4	13.2	0.2
607	13.2		13.2
608	0	13.5	-0.1
610	5.6	1.8	26.0
611	-0.8	22.6	-84.0
613	9.2	-0.1	0
614	13.2	0.4	13.2
615	-85.2	+85.0	-84.0
1616	-0.1	13.3	+0.1



G BOA	ARD
	IC
IC601 IC602	G-5 €-5
TRAN	SISTOR
Q601 Q602 Q603 Q604 Q605 Q606 Q607 Q608 Q610 Q611 Q612 Q613 Q614 Q615 Q616 Q617	B-5 A-3 A-3 F-5 G-4 G-7 A-7 A-7 F-4 A-6 F-6
DI	ODE
D601 D602 D603 D605 D607 D608 D609 D610 D612 D613 D614 D615 D616 D617 D618 D619 D620 D621 D622 D623 D624 D625 D626 D627 D628 D630 D631 D633	C-G-F-A-C-D-E-E-F-G-A-A-A-B-B-B-B-A-E-F-A-A-B-B-F-E-F-G-A-A-G-B-B-B-A-B-B-F-E-F-B-F-B-F-B-F-B-F-B-F-B-F-B-F-B





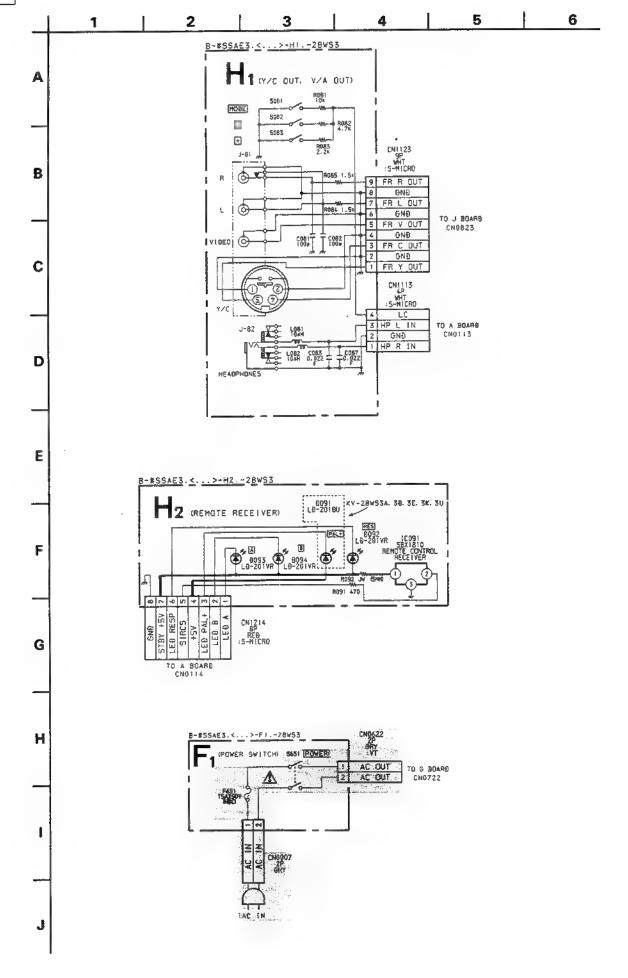
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NOTE:

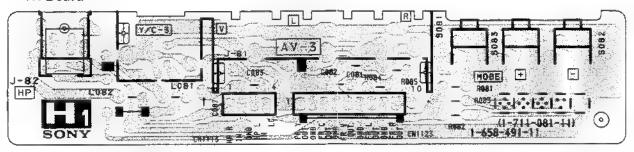
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

#### **D** BOARD

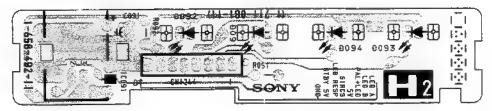
10	C
IC801	E-14
TRANS	SISTOR
Q801 Q802 Q803	C-2 B-5 E-13
DIC	DDE
D802 D803 D804 D805 D806 D811 D812 D813 D815 D872	F-5 D-5 E-11 B-15 B-15 B-7 B-14 A-13 E-15 E-15



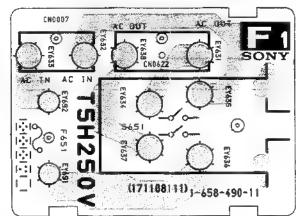
#### - H1 Board -

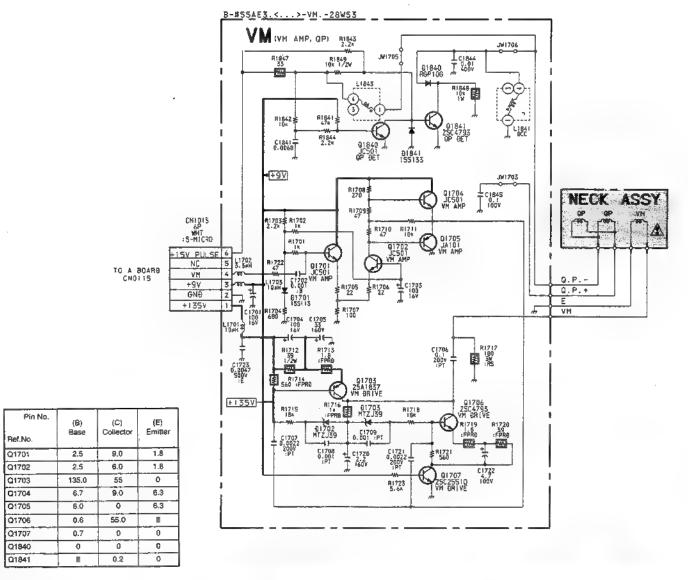


#### - H2 Board -

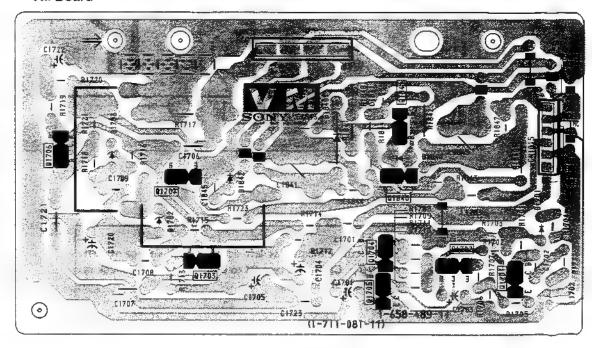


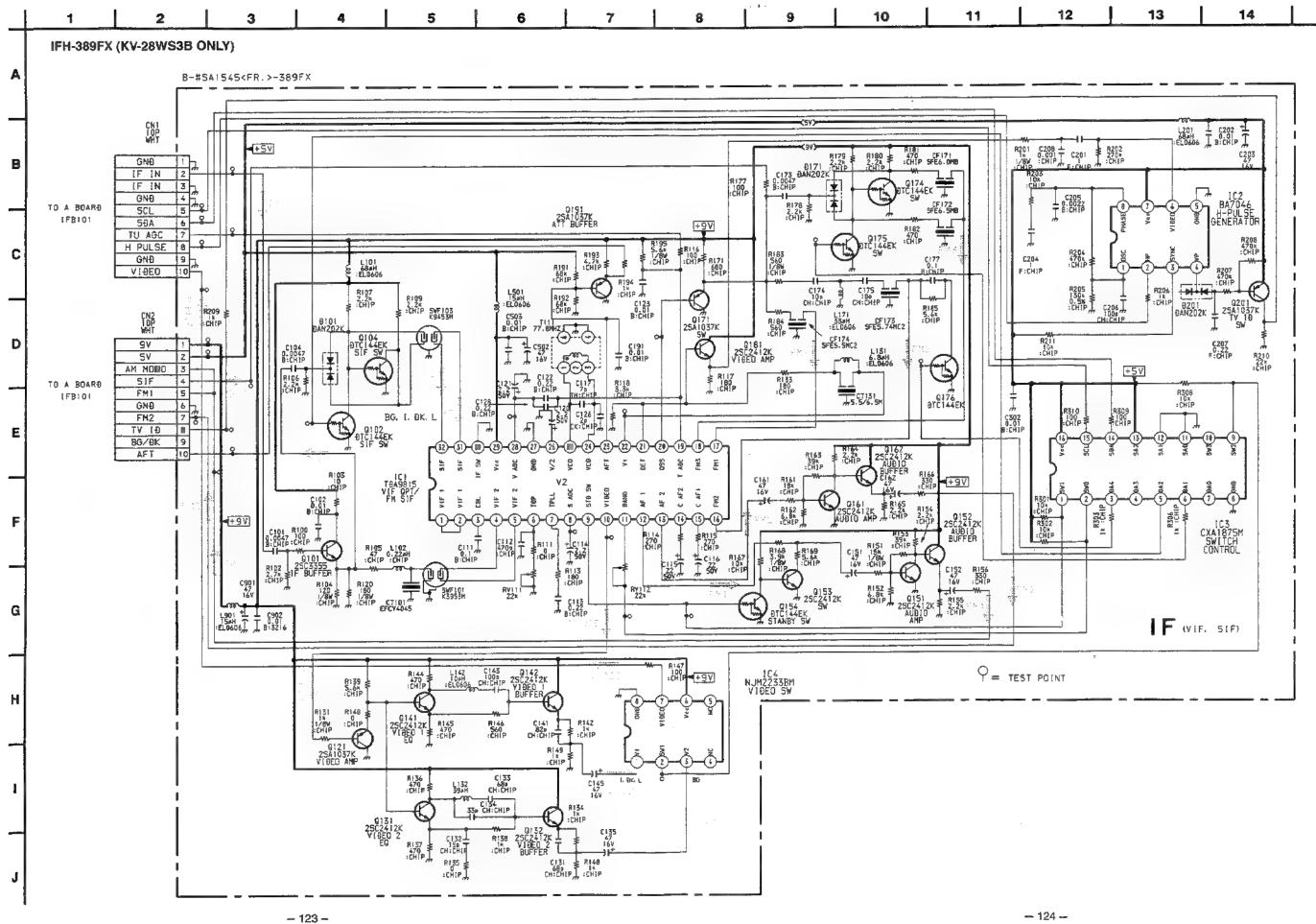
#### - F1 Board --





#### - VM Board -

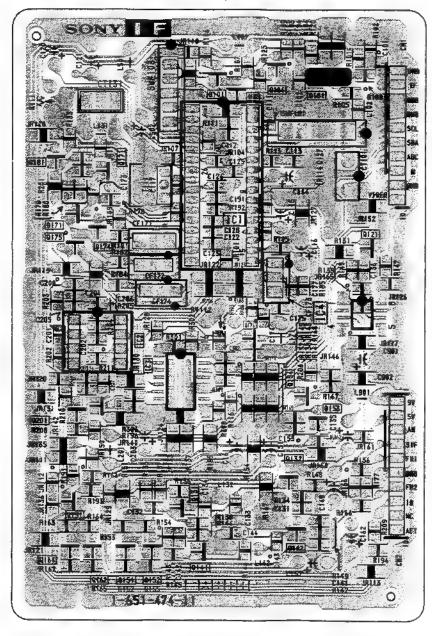




15

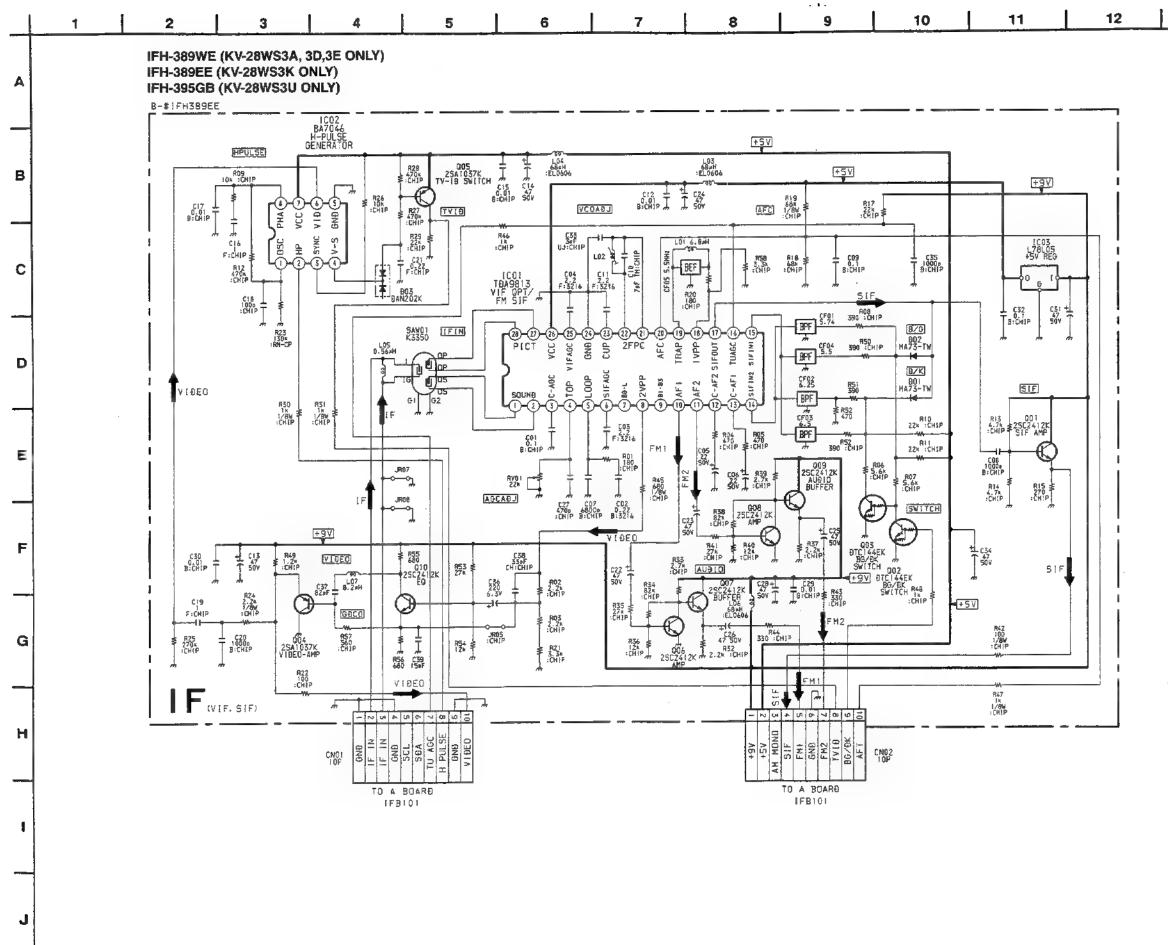


# — IF Board — (KV-28W\$3B ONLY)



15

KV-2



#### IF BOARD \* MARK

14

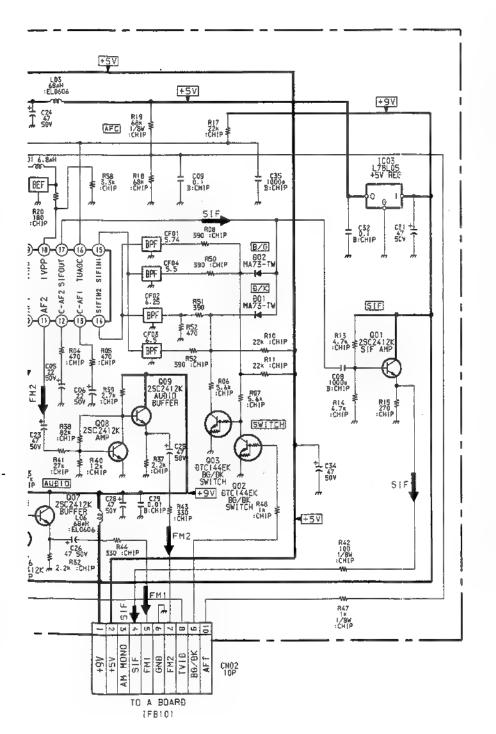
13

Model Ref. No.	28WS3A	28WS3D	28WS3E	28WS3K	
C23	47MF 50V	47MF 50V	47NF 50V	47MF 50V	$\top$
C25	47MF 50V	47MF 50V	47MF 50V	47MF SCV	+
C36	-	-	+	220MF 6.3V	╅
C37		-	-	82PF	T
C38	27PF	27PF	27PF	33PF	+
C39		-	-	15PF	+
CF01	5.74MHz	5 74MHz	5.74MHz	5.74MHz	+
CF02	_	_		6.25MHz	┪
CF03	6.5MHz	6.5MHz	6.5MHz	6.5MHz	+
CF04	5.5MHz	5.5MHz	5.5MHz	5.5MHz	+
CF05	5.5MHz	5.5MH2	5.5MHz	5.5MH2	+
D01	MA73-TX	MA73-TX	MA73-TX	MA73-TX	$^{+}$
002	MA73-TX	MA73-TX	MA73-TX	MA73-TX	+
L01	10UH	touH	10UH	6. <b>8</b> UH	$^{+}$
L07	-	-	-	8.2UH	$^{\dagger}$
Q02	DTC144EK	DTC144EK	DTC144EK	DYC144EK	1
Q03	DTC144EK	DTC144EK	DTC144EK	DTC144EK	+
O08	2SC2412K	2SC2412K	2SC2412X	2SC2412K	1
Q09	2\$C2412K	2\$C2412K	25C2412K	25C2412K	+
Q10	-		-	25C2412K	+
JR5	D: CHIP	0 : CHIP	0 : CHIP	-	+
R06	5.6K	5.6K	5.6K	5.6K	╈
R07	5.6K	5,610	5.6K	5.6K	$^{+}$
Ros	390	390	390	390	$\top$
R10	22K	22K	22K	221(	7
R11	22K	22K	22K	22K	1
R20	220	220)	220	160	+
R21	1K	1K	1K	3.3K	+
R37	2.2K	2.2K	2.2K	2.2K	$^{+}$
R38	82K	62K	82K	82K	$\top$
P39	2.7K	2.7K	2.7K	2.7K	Ť
R40	12K	12K	12K	12K	Ť
R41	27K	27K	27K	27K	$^{\dagger}$
R43	330	330	330	330	1
R45	1K	1K	114	680	+
R48	1K	1K	116	1K	$\top$
R51	-		-	390	7
R52	390	390	390	390	7
R53		-	_	27K	$\top$
R54	-	-	- "	12K	T
R55	_		- "	680	
R56	-	<del></del>	-	68D	T
R57	0:CHIP	0 : CHIP	0 : CHIP	560	Ť
Pt59	-	-		470	1
R60	_	-	-	-	1
R61	100	100	100	-	$^{\dagger}$
SAW01	K3350	K3350	K3350	K3350	+

KV-28WS3

KV-28WS3



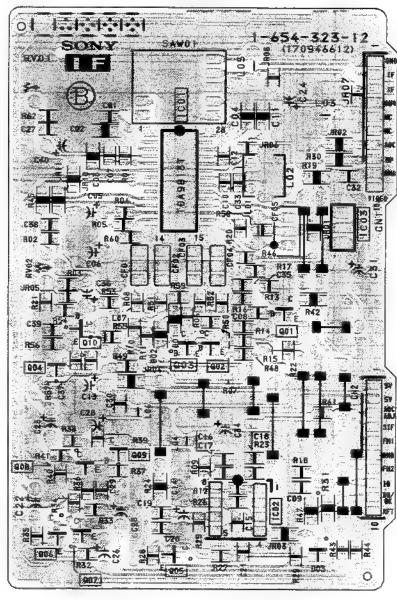


#### IF BOARD \* MARK

Model Ref. No.	28WS3A	28WS3D	28W53E	28WS3K	28WS3U
C23	47MF 50V	47MF 50V	47MF 50V	47MF 50V	
225	47MF 50V	47MF 50V	47MF 50V	47MF 50V	
236		-	-	200MF 6.3V	
237				BZPF	
C38	27PF	27PF	279F	33PF	47PF
039	-			1SPF	
CIFQ1	5.74MHz	5.74MHz	S.74MHz	5.74MHz	
CF02	D. LeueusZ	3,7 W/P/12	3.74MHZ	6,25MHz	
CF03	6.SMHz	6.5MHz	6.5MHz	6.5MHz	
CF04	5.5MHz	S.SMHz	5.5MHz	5.5MHz	8.0MHz
CF05	5.5MHz	5.5MHz	5.5MHz 5.5MHz	5.5MHz	5.0MHz
					9.DMPIZ
D01	MA73-TX	MA73-TX	MA73-TX	MA73-TX	
D02	MA73-TX	MA73-TX	MA73-TX	MA73-TX	0 : CHIP
L01	10UH	TOUH	10UH	8.8UH	8.2UH
L07	-	-	-	8.2UH	-
202	DTC144EK	DTC144EK	DTC144EK	OTC144EK	
003	DTC144EK	DTC144EK	OTC144EK	£YC144EK	
208	2\$C2412K	2SC2412K	Z\$C2412K	ZSC2412K	-
C09	25C2412K	2SC2412K	2SC2412K	2SC2412K	
210	-	_	-	2SC2412K	-
JPS	0:CHIP	0 : CHIP	0 : CHIP	-	0 : CHIP
R06	5.8K	5.8K	5.5K	5.6K	-
R07	5.6K	5.6K	5.8K	5.6K	-
R08	390	390	390	390	_
810	22K	22K	22K	22K	~
R11	22K	22K	22K	22K	_
R20	220	220	220	180	180
R21	1K	1K	τĶ	3.3K	1.8K
R37	2.2K	2.2K	2.2K	2.2K	
R38	82K	82K	82K	62K	-
R39	2.7K	2.7K	2.7K	2.7K	-
840	12K	12K	12K	12K	
R41	27K	27K	27K	27K	
R43	330	330	330	330	
R45	1K	1K	11K	680	186
P48	1K	1K	1K	1K	
R61		+		390	
R52	390	390	390	390	
R53				27K	
R54			_	12K	
R\$5			-	580	
RIS6					
RI57	0.000	0 : CHIP	D : CHIP	680	0.000
	0 : CHIP			560	0:CHEP
PI59 1	*	-	-	470	
P160		-	-	-	5.6K
R61	100	100	100	+	100
SAW01	K3350	K3350	K3350	K3350	J3352K

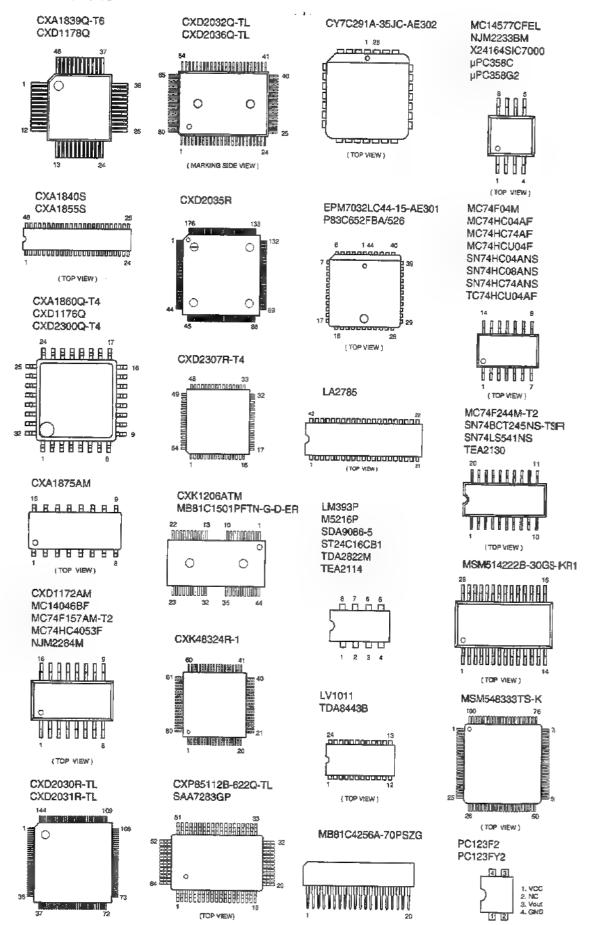


- IF Board -- (KV-28WS3A, 3D, 3E, 3K, 3U ONLY)

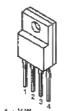


#### 5-4. SEMICONDUCTORS

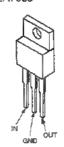
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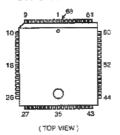
PQ05RF21 PQ12RF21



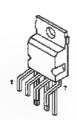
- GND ON/OFF CONTROL
- PQ09RE11 TEA7605



SDA30C163-2GEG SDA5273P-C26-GEG SDA9205-2GEG



STV9379



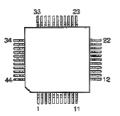
TDA4665T-T



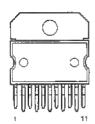
TDA6622-5



TDA6812-2MGEG



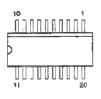
TDA7265



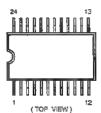
TDA7317



TDA8395T/N2



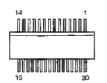
TDA9145/N3



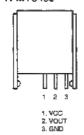
TDA9160A



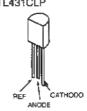
TDA9813T/V3 TDA9814T/V3



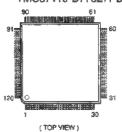
TFMY5400



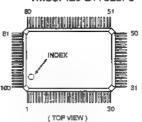
TL431CLP



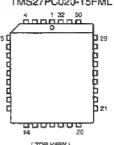
TMC57110-D77527PB



TMC57120-D77523PJ



TMS27PC020-15FML



(TOP VIEW)

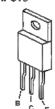
DTA114EK DTC114EK DTC124EKA-T146 DTC144EKA-T146 2SA1037K 2SA1162-G 2\$C2412K 2SC2412K-QR



DTA144E\$A DTC144ESA



IRF610

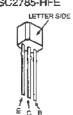


JA101 JC501 2SA1207 2SA1837

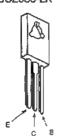
2SA733-K 2\$A933\$-R 2SA1091-O 2SC1740S-R 2SC2500-B 2SC2551-O



2SC2603-F 2SC2785-HFE

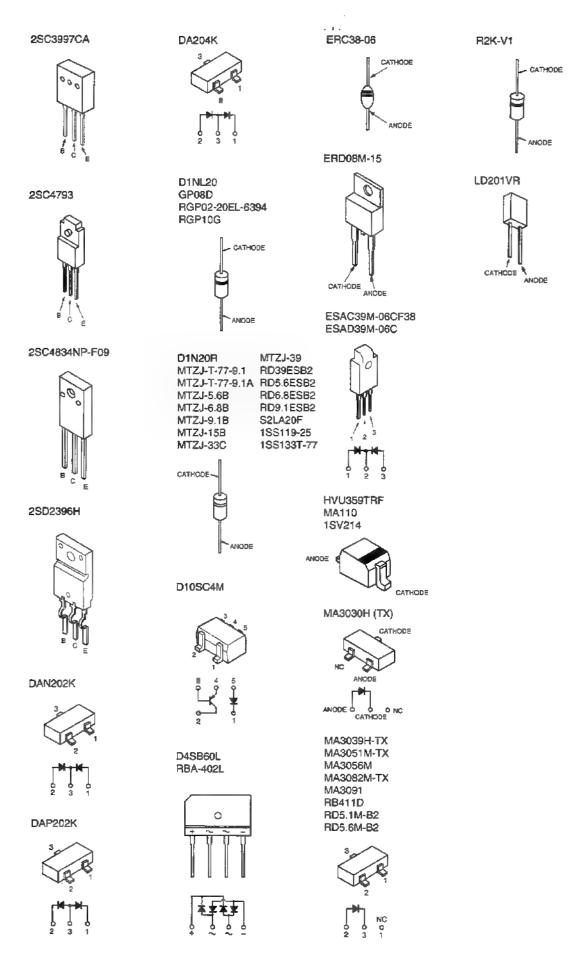


2SC2661 2SC2688-LK



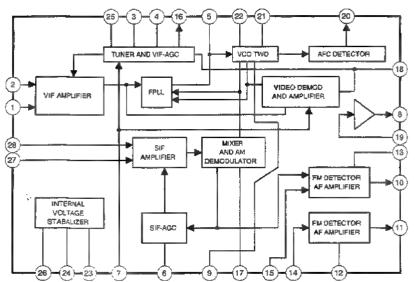
2SC3779C D-AA

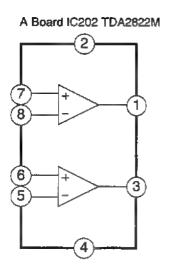




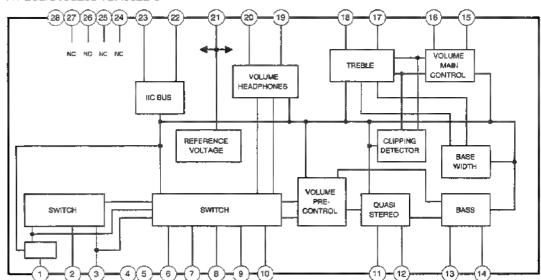
### **IC BLOCK DIAGRAMS**

#### T Board IC5103 TDA9813T/TDA9814T

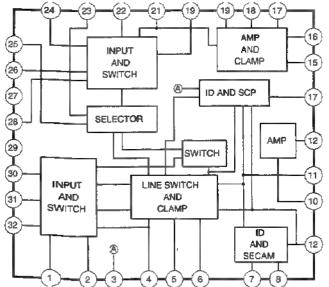




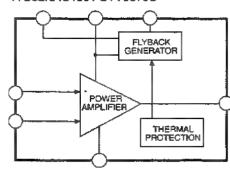
#### A1 Board IC3203 TDA6622-5



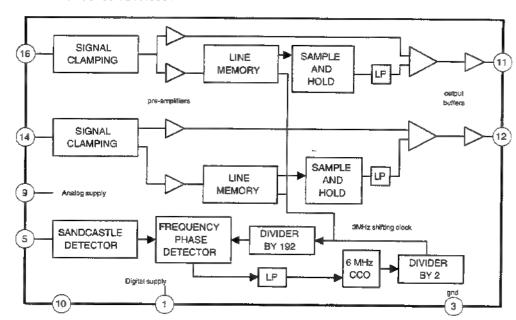
#### B1 Board IC1302 CXA1860Q



#### A Board IC1501 STV9379S

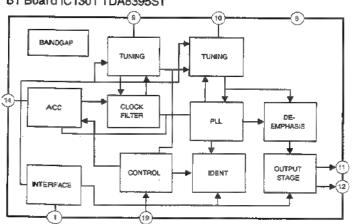


#### B1 Board IC3709 TDA4665T



. . .

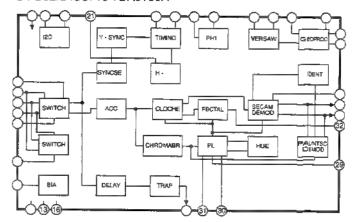


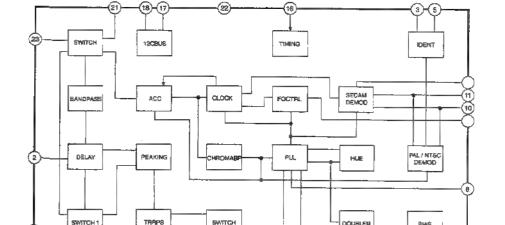


B2 Board IC9001 TDA9145/N3

SWITCH 1

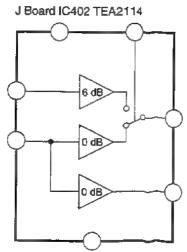
#### B1 Board IC3713 TDA9160A





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SWITCH



## SECTION E EXPLODED VIEWS

#### NOTE:

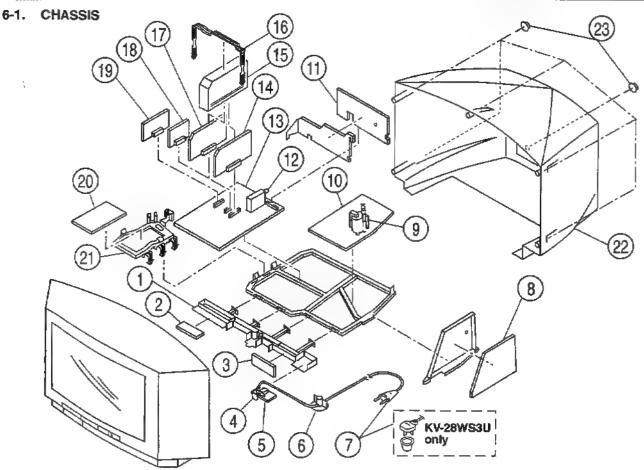
- Items with an part number and no description are not stocked because they
  are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked  $\hat{\mathcal{X}}$  are critical for safety.

Replace only with the part number specified.

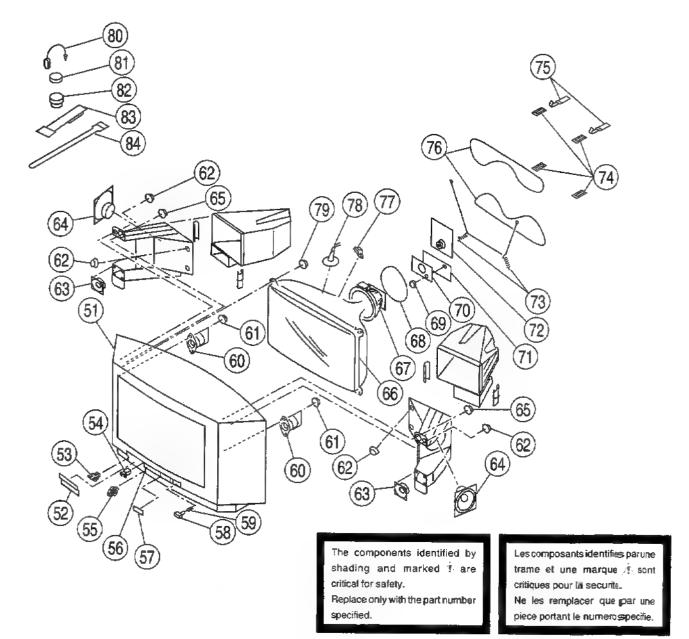
Les composants identifies par une trame ■ une marque / În sont critiques pour la securite.

Ne les remptacer que par une piece portant le numero specifie.



REF NO	PART NO	DESCRIPTION REMARK	REF NO	PART NO	DESCRIPTION REMARK
1	*4-050-003-01	BRACKET, H	13	*A-1632-296-A	A BOARD, COMPLETE (KV-28WS3A/28WS31
2	*A-1646-098-A	H1 BOARD, COMPLETE		*A-1632-337-A	A BOARD, COMPLETE (KV-28WS3B)
3	*A-1646-099-A	H2 BOARD, COMPLETE (KV-28WS3A/28WS3D	1	*A-1632-339-A	A BOARD, COMPLETE (KV-28WS3E)
		/28WS3E/28WS3K/28WS3U)		*A-1632-340-A	A BOARD, COMPLETE (KV-28WS3K)
	*A-1646-108-A	BOARD, COMPLETE (KV-28WS3E)		*A-1632-336-A	A BOARD, COMPLETE (KV-28WS3U)
4	A 1-571-433-21	SMITCH, PUSH (AC POWER)	14	*A-1620-063-A	III BOARD, COMPLETE (KV-28WS3A/28WS3
5	*A-1624-052-A	F1 BOARD, COMPLETE		W-1040-003-W	
6	*4-202-531-01	AC CORD, LOCK (SC)		*A-1620-067-A	/28WS3E/28WS3K/28WS3
7.	A 1-751-680-11	CORD, POWER (NITH NOISE FILTER)	15	*4-050-639-01	B1 BOARD, COMPLETE (KV-28WS3B)
•	131 T 131 000 II	2.5A/250V (KV-28WS3A/28WS3B/28WS3D	12	-4-000-009-01	CASE, SHIELD (MAIN) (EV-28WS3A/28WS3
		/28WS3E/28WS3E)	16	A4 000 C41 01	/28WS3E/28WS3K/28WS3
	1-590-762-11	CORD, POWER (NITH PLUG)	10	*4-050-641-01	SUPPORTER (2), PCB (KV-28WS3A/28WS 3
	2472 1-334-109-71	2.5A/250V (KV-28WS3U)	1 42	45 4686 501 5	/28WS3B/28WS3K/28WS 3
8	*A-1636-009-A	G BOARD, COMPLETE	17	*A-1626-004-A	Q BOARD, COMPLETE (KV-28WS3A/28WS 3
9	△ 1-453-187-11				/28WS3E/28WS3K/28WS 3
•	767 1-400-101-11	TRANSPORMER ASSY, FLYRACK	18	*A-1520-068-A	B2 BOARD, COMPLETE (KV-28WS3B)
10	43 4644 464 4	(NX-2661/U2E)	19	*A-1630-368-A	Al BOARD, COMPLETE
11	*A-1640-182-A	BOARD, COMPLETE	20	*A-1654-017-A	T BOARD, COMPLETE (KV-28WS3A/28WS 3
12	*A-1651-073-A	J BOARD, COMPLETE	i		/28WS3E/28WS 3
14	1-693-315-21	TUNER (UV1316) (KV-28WS3A/28WS3B		*A-1654-020-A	T BOARD, COMPLETE (KV-28WS3B)
		/28WS3D/28WS3E/28WS3E)		*A-1654-019-A	T BOARD, COMPLETE (KV-28WS3U)
	1-693-314-21	TUNER (U1344) (KY-28WS3U)	21	*4-050-453-01	BRACKET, T
			22	4-050-253-01	COVER, REAR
			23	4-039-358-01	SCREW (4X16), (+) BY TAPPING

#### 6-2. PICTURE TUBE



REF NO PART NO DESCRIPTION REMARK REF NO PART NO DESCRIPTION REMARK 51 <u>↑</u> 8-451-433-11 ↑ 1-452-724-11 4-050-243-01 REZNET DEFLECTION YOKE (Y28GICM) 52 4-202-555-01 SHAFT, DOOR COIL, HA ROTATION (RT-165) SCREW (3%12), (+) BY TAPPING NECK ASSY (NA297-N3) 68 53 4-050-001-01 DOOR, CONTROL 4-039-356-11 69 (KV-28WS3A/28WS3D/28WS3K) A 8-453-005-31 70 4-050-001-41 DOOR, CONTROL (KV-28WS3B) 71 \*A-1644-064-A VM BOARD, COMPLETE 4-050-001-21 DOOR, CONTROL (KV-28WS3E/28WS3U) 72 \*A-1638-070-A C BOARD, COMPLETE CATCHER, PUSH 4-392-036-01 73 4-200-433-01 SPRING, EXTENSION 55 4-045-250-01 DAMPER 74 4-202-463-01 CLIP, DGC (25") 56 4-050-002-01 PLATE, ORNAMENTAL SPACER, DGC COIL, DEGAUSSEING 75 \*4-050-252-01 57 **★ 1-409-646-11** 4-050-000-01 WINDOW, ORNAMENT 76 58 4-049-999-01 BUTTON, POWER 77 3-704-495-01 SPACER, DY 59 £ 1-540-006-22 4-202-964-01 78 SPRING CAP ASSY, HIGH-VOLTAGE 60 1-504-418-21 SPEAKER (50M) 79 4-036-188-01 SCREW (M), 61 4-039-355-11 SCREW (4X12), (+) EV TAPPING 4-308-870-00 CLIP, LEAD WIRE 62 4-039-358-01 SCREW (4X16), (+) BY TAPPING MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK; 15MM Ø 81 1-452-032-00 63 1-505-154-11 SPEAKER (6.5CM) 82 1-452-094-00 1-505-155-11 SPEAKER (10CM) 83 X-4387-214-1 PERMALLOY ASSY, CORRECTION 65 4-302-404-03 SCREW (WASHER HEAD) (+P 4x16) 3-701-007-00 BAND, BINDING A 8-737-762-05 PICTURE TUBE (SD-284) (N66LGY010X)

#### SECTION 7

#### **ELECTRICAL PARTS.LIST**

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF:mF, PF: mmF

 $MM : mH, \mu H : mH$ 

 Items marked "\* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

#### RESISTORS

- All resistors are in ohms
- F: nonflammable

The components identified by shading and marked in are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque 🛧 sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION	!	REMARK .	REF.NO.	PART NO.	DESCRIPTION	<u>on</u>		REMARK
	*A-1620-063-A	B1 BOARD, COMPLETE	(KV-28MS3A/2 28WS3E/2		C319	1-163-038-91	CERAMIC CHIP	0.1MF		25V
	*A-1620-067-A	E1 BOARD, COMPLETE	28WS3U) (KV-28WS3B)		C320 C321 C322 C323 C324	1-163-038-91 1-163-038-91 1-104-664-11 1-163-038-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.1MF 47MF 0.1MF	20%	25V 25V 25V 25V 25V
C01 C02 C03 C04 C05	1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MP CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MP		25V 25V 25V 25V 25V	C325 C326 C327 C328 C329	1-104-664-11 1-126-933-11 1-126-933-11 1-126-933-11 1-163-038-91	BLECT BLECT BLECT BLECT CERAMIC CHIP	47MF 100MF 100MF 100MF 0.1MF	20% 20% 20% 20%	25V 16V 16V 16V 25V
C06 C07 C08 C09 C10	1-163-038-91 1-104-664-11 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20%	25V 25V 25V 25V 25V	C330 C331 C332 C333 C334	1-163-038-91 1-163-038-91 1-163-137-00 1-163-137-00 1-163-129-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 680PF 680PF	5% 5% 5%	25V 25V 50V 50V 50V
C11 C12 C14 C15 C16	1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	C335 C336 C337 C338 C339	1-163-099-00 1-163-096-00 1-163-031-11 1-104-664-11 1-126-964-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	13PF	5% 5% 20% 20%	50V 50V 50V 25V 50V
C17 C18 C19 C20 C21	1-163-038-91 1-163-038-91 1-163-038-91 1-163-124-00 1-163-121-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 200PF CERAMIC CHIP 150PF	5% 5%	25V 25V 25V 50V 50V	C340 C341 C342 C343 C344	1-163-038-91 1-163-038-91 1-126-964-11 1-126-964-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	0.1MF 1000F 1000F	20% 20% <b>5%</b>	257 257 507 507 507
C22 C23 C301 C302 C303	1-104-664-11 1-163-038-91 1-163-111-00 1-163-031-11 1-163-038-91	ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 56PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	20% 5%	25V 25V 50V 50V 25V	C501 C502 C503 C504 C505	1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.1MF		257 257 257 257 257
C304 C305 C306 C307 C308	1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	C506 C507 C508 C509 C510	1-163-038-91 1-104-664-11 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 0.1MF 0.1MF	20% ·.	257 257 257 257 257
C309 C310 C311 C312 C313	1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		25V 25V 25V 25V 25V	C511 C512 C513 C514	1-163-038-91 1-163-037-11 1-163-038-91 1-163-017-00	CBRAMIC CHIP CBRAMIC CHIP (KV-28WS3A/20 CBRAMIC CHIP CBRAMIC CHIP	0.022MF BWS3D/28WS3B 0.1MF	10% /28WS3R 10%	257 257 (/28783 TD) 257 507
C315 C316 C317 C318	1-163-031-11 1-163-119-00 1-163-031-11 1-163-038-91	CERAMIC CHIP 0.01MF CERAMIC CHIP 120PF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	5%	50V 50V 50V 25V	C515 C516 C517 C518	1-163-038-91 1-162-568-11 1-163-038-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.33MF 0.1MF	10%	251 161 251 251

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	RI
	REMARK
5% 5%	50V 50V 25V
20% B/28WS3	25V 25V 25V K/28WS3U) 50V
20%	50V 25V
20% 20% 20%	50V 50V 50V
5% 5%	50V 50V 25 <b>V</b>
5% 20%	50♥ 150♥
10% 10% 10% 10%	50V 25V 16V 50V
10%	25V K/28WS3U) 25V 7-28WS3B) 50V
5% 5% 10%	50V 50V 25V 25V 25V
5%	50V

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	REF.NO.	PART NO.	DESCRIPTION	DN		REMARK	REF.NO.	- PART NO.	DESCRIPT	ION		REMARK
	C519	1-124-902-00	RLECT	0.47MF	20%	50V	C558	1-163-111-00	CERAMIC CHI	P 56PF	5%	50 <b>7</b>
	C520	1-163-038-91	CERAMIC CHIE	0.1MF		25⊽	C559 C560	1-163-111-00 1-163-038-91	CERAMIC CHI	P 56PF P 0.130F	5%	50V 25V
	C522	1-163-038-91	CERAMIC CHIE	0.1MF	-	V-28WS3B) 25∀	C561	1-163-038-91	CERAMIC CHI	0.1MF		25V
	C525	1-163-038-91	CERAMIC CHIP	0.1MF		V-28WS3B) 25V	C563 C564	1-104-664-11 1-163-038-91	ELECT CERAMIC CHIE	47MF 0.1MF	20%	25V 25V
					(37)	7-28WS3B)	C1381			28WS3D/28WS3E	1/28WS3	K/28WS3U) 50V
	C527	1-164-326-91	CERAMIC CHIP	0.47MF	{ <b>K</b> V	25V 7-28WS3B)	C1302	1-126-964-11		10MF	20%	50V
	C528	1-163-038-91	CERAMIC CHIP	0.110	,	25V 7-28WS3B)	C1303 C1306		CERAMIC CHIE		20%	25V
**	C530	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V 7-28WS3B)	C1307 C1308	1-126-964-11 1-126-964-11	ELECT	10MF	20%	50V 50V
	C531	1-104-664-11	RT.180°#	47MF	20%	25V	C1309			10MF	20%	50V
		1-163-038-91				7-28WS3B} 25V	C1310	1-163-141-00 1-163-141-00	CERANIC CHIP	0.001MF	5% 5%	50V 50V
					(KV	7-28W\$3B)	C1311 C1313	1-163-125-00	CERAMIC CHIP	220PF	5%	25 <b>V</b> 50 <b>V</b>
	L	1-163-038-91	CREATC CHIP	A.THL	{KV	25V (-28WS3B)	C1314	1-126-964-11		10KF	20%	' 50V
	C534	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C1315 C1316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	50∇ 25♥
	C535	1-164-004-91	CERAMIC CHIP	0.1MF	10%	7-28WS3B) 25V	C1317 C1318	1-164-489-11	CERAMIC CHIP CERAMIC CHIP	0.22MF	10%	16V
		1-163-037-11	(KV-28NS3A/2) CERAMIC CHIP		28WS3K	728WS3U) 25V	C1319	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V 50V
					(KV	-28WS3B)	C1320	1-164-004-91	CERAMIC CHIP		10%	25V
	C536	1-163-038-91	CERAMIC CHIP	0.1MF	íRV	25V -28WS3B)		1-163-037-11	(KV-28WS3A/2 CERAMIC CHIP	0.022MF	10%	25V
	<b>C</b> 537	1-163-038-91	CERAMIC CHIP	0.110	-	25V -28WS3B)	C1321	1-163-113-00	CERAMIC CHIP	68PF	5%	7-28WS3B) 50V
	C538	1-104-664-11	ELECT	47MP	20%	25V -28WS3B)	C1322 C1323	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
	C539	1-163-038-91	CODENTO COTO	0 100	face	,	C1324	1-163-037-11	CERAMIC CHIP CERAMIC CHIP	0.022MF	5% 10% .	50V 25V
		1-104-664-11				25V -28WS3B)	C1347 C1348	1-163-038-91	CERANIC CHIP CERANIC CHIP	0.1MF 0.1MF		25V 25V
		1-104-664-11				25V -28WS3B)	C1349	1-163-101-00		22PF	5%	50V
,	P167	1-104-004-11	REDUT	47MP	20% (KV	25V -28W\$3B)	C1350 C1351	1-164-232-11 1-163-141-00	CERANIC CHIP	0.001MF	10% - 5%	50V 50V
(	C542	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C1352 C1431	1-163-038-91	CERAMIC CHIP CERAMIC CHIP	0.1MF		25V 25V
	2543	1-163-038-91	CERANIC CHIP			-28WS3B) 25V	C1432	1-104-664-11		47MF	20%	25V
,	C544	1-104-664-11	ELECT	47MF	20% (KV-	25V -28W\$3B)	C1436 C1443	1-163-038-91 1-104-664-11	CERAMIC CHIP	0.1MF	20%	25V 25V
(	2545	1-163-038-91	CERANTO CHIP	0 two		25₹	C3700 C3701	1-104-664-11	ELECT	47MF	20%	25V
-	2546	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C3701	1-163-638-31	CERAMIC CHIP	U. HIEF		25♥
		1-126-924-11			20%	10V	C3702	1-163-038-91		0.1MF		25∀
		1-163-038-91 1-163-038-91	CERAMIC CHIP	0.1MF		25V 25V	C3703	1-163-038-91	CERAMIC CHIP	0.1MF		25V
•		1 103 030 31	(KV-28WS3A/28	WS3D/28WS3E/	28WS3K	/28WS3IT)	C3707 C3708	1-163-038-91	CERAMIC CHIP	0.1MF		25V
,	550	1 160 000 01					C3709		CERAMIC CHIP			25♥ 25♥
			CERAMIC CHIP (KV-28WS3A/28	WS3D/28WS3E/	28WS3K,	25V /28WS3U)	C3710	1-163-038-91	CERAMIC CHIP	0.1MF		25V
		1-163-038-91	CERAMIC CHIP (KV-28WS3A/28		28WS3K	25V /28WS301	C3711 C3712	1-126-965-11 1-163-038-91		22MF	20%	50V
C	552	<b>1-16</b> 3-038 <b>-9</b> 1	CERAMIC CHIP	0.1MP		25V	C3713	1-163-038-91	CERAMIC CHIP	0.1MF		25V 25V
	1550	1 1/2 000 01	(KV-28WS3A/28		20MS3K/	,	C3714	1-163-038-91	CERAMIC CHIP	0.1MF		25V
	553 554	1-163-038-91 1-163-038-91	CERANIC CHIP	0.1MP		25V 25V	C3715 C3716	1-104-664-11 1-163-038-91	ELECT CERAMIC CRIP	47MF :	20%	25V 25V
	EEE -	1 160 000 00	(KV-28WS3A/28	WS3D/28W83E/	28W83R/		C3717	1-163-038-91	CERAMIC CEIP	0.1MF		25V
C	555	1-163-038-91	CERANIC CHIP (KV-28WS3A/28		28WS3R/	25V (28WS3U)	C3718 C3719	1-163-038-91	CERAMIC CHIP	0.1MF	10%	25V 50V
c	556	1-153-038-91	CERTANTO CETE	0 1MP		2EV						
		1-163-111-00			5%	25V 50V	C3720 C3721	1-163-038-91 1-163-038-91	CERAMIC CHIP	0.1MP 0.1MP		25V 25V

# B1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3722 C3723 C3724	1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	25V 25V 25V	C3778	1-104-664-11	BLECT 47MP 20% (KV-28WS3A/28WS3D/28WS3E/28WS3 CERANIC CHIP 0.1MP	25V (K/28WS3U) 25V
C3725	1-163-038-91	CERANIC CHIP 0.1MF	. 25V	C3782 C3783	1-163-143-00	CERAMIC CHIP 0.0012MF 5% CERAMIC CHIP 0.0022MF 10%	50V 50V
C3726 C3727 C3730 C3731	1-104-664-11 1-126-964-11 1-126-964-11 1-126-049-91	ELECT 10MF 20% ELECT 10MF 20%	25V 50V 50V 50V	C3790		CERAMIC CHIP 100PF 5% (KV-28WS3A/28WS3D/28WS3E/28WS3 CERAMIC CHIP 220PF 5%	50 <b>V</b>
C3732 C3733 C3734 C3735	1-163-038-91 1-163-038-91	CERANIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF	25V 25V 25V 25V	CN0301		INECTOR >  SOCKET, CONNECTOR 30P	V-28WS3B)
C3736	1-104-664-11	ELECT 47MF 20%	257	CN0302		(KV-28WS3A/28WS3D/28WS3E/28WS3 CONNECTOR, BOARD TO BOARD 50P	K/28WS3U)
C3737 C3738 C3739 C3740 C3741	1-163-038-91 1-163-038-91 1-163-038-91	CERAMIC CHIP 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	16V 25V 25V 25V 25V	D01 D301		DE > DIODE DAP202K DIODE HVU359TRF	
C3743 C3744 C3745	1-163-038-91 1-126-965-11 1-163-038-91	CERAMIC CHIP 0.1MF BLECT 22MF 20% CERAMIC CHIP 0.1MF	25V 50V 25V	D302 D303 D1301		DIODE HVU359TRF DIODE MA110	
	1-163-038-91 1-163-101-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 22PF 5%	25V 25V 50V	D1302 D1304 D1309 D3700	8-719-914-43 8-719-914-43 8-719-105-91	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE RD5.6M-B2	
C3749 C3750 C3751 C3752	1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF 10%	25V 25V 25V 50V	D3701 D3702 D3703	8-719-031-68	DIODE RB411D	- 15 dags - 2 m)
C3753 C3754	1-163-141-00	CERAMIC CHIP 0.001MF 5% CERAMIC CHIP 0.001MF 5%	50V 50V		< FER	(KV-28WS3A/28WS3D/28WS3E/28WS3) RITE READ >	K/28MS3U)
C3755 C3756 C3757	1-163-038-91	CERAMIC CHIP 0.01MF 10% CERAMIC CHIP 0.1MF	50V 25V 25V	FB3700	1-414-234-11	INDUCTOR, FERRITE BRAD	
C3759		CERAMIC CHIP 0.1MF	25⊽		< ENC	APSULATED FILTER >	
C3760		(KV-28WS3A/28WS3D/28WS3E/28WS3 CERAMIC CHIP 0.47MF (KV-28WS3A/28WS3D/28WS3E/28WS3	K/28WS3U) 16V	FL01 FL02 FL03	1-233-438-11	FILTER, LOW PASS FILTER, LOW PASS FILTER, LOW PASS	
C3761	1-164-038-11		P 50V	FL301 FL302	1-236-620-11	FILTER, LOW PASS FILTER, LOW PASS	
C3764 C3767		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF 10% (KV-28WS3A/28WS3D/28WS3E/28WS3	25V 50V K/28WS3U)	FL352 FL353 FL355	1-233-435-11	FILTER, LOW PASS (KV-28WS3B) FILTER, LOW PASS (KV-28WS3B) FILTER, LOW PASS (KV-28WS3B)	
C3768	1-164-505-11	CERAMIC CHIP 2.2MF (EV-28WS3A/28WS3D/28WS3E/28WS3	16V K/28WS3U)	FL1301 FL1302	1-233-434-11	FILTER, LOW PASS FILTER, LOW PASS	
C3769	1-163-097-00	CERAMIC CHIP 15PF 5% (KV-28WS3A/28WS3D/28WS3E/28WS3	50V	FL3700 FL3701		FILTER, LOW PASS	
C3770 ·	1-164-038-11	CERAMIC 2PF 0.25P	F 50V	FL3702		FILTER, LOW PASS FILTER, LOW PASS	
C3771	1-104-664-11	(KV-28WS3A/28WS3D/28WS3E/28WS3 ELECT 47MF 20%	25V		< IC	>	
C3772 ·	1-163-037-11	CERAMIC CHIP 0.022MF 10%	25V	ICO1	8-752-338-46		
C3773	1-163-097-00	(EV-28MS3A/28MS3D/28MS3E/28MS3 CERAMIC CHIP 15PF 5%	50V	IC02 IC04		IC CXK48324R-1	
C3774	1-124-903-11	(KV-28WS3A/28WS3D/28WS3E/28WS3 ELECT 1MF 20% (KV-28WS3A/28WS3D/28WS3E/28WS3	50V	IC05 IC06	8-759-362-96	IC CXK49324R-1 IC MB81C1501PFTW-G-D-ER	
C3775	1-163-038-91	CERAMIC CRIP 0.1MF	25V	IC07 IC301	8-752-357-86	IC CXD2036Q-TL IC CXD2300Q-T4	
C3776	1-163-017-00	(KV-28WS3A/28WS3D/28WS3E/28WS3 CERANIC CHIP 0.0047MF 10% (KV-28WS3A/28WS3D/28WS3E/28WS3	50V	IC302 IC501 IC502	8-759-925-76	IC CXD2030R-TL IC SN74HC08ANS IC CXD2032Q-TL	
C3777	1-163-038-91	CERANIC CHIP 0.1MF	25V	2000	0-122-1/0-03	consulatin	

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REF.NO.	PART NO.	DESCRIPTION	MARK REFJIC	PART NO.	DESCRIPTION	REMARK
IC503 IC504 IC505 IC506	8-759-350-07 8-759-033-43 8-759-033-43	IC CXD2307R IC SDA9205-2GEG (KV-2BWS3B) IC MC74F244M IC MC74F244M	13702 13703 13704 13705	1-408-403-00 1-408-403-00 1-408-403-00 1-408-403-00	INDUCTOR 3.3UH INDUCTOR 3.3UH	
IG507 IC509		IC SN74HC04ANS	L3706	1-414-253-91	INDUCTOR 5.60H	
IC510		IC MC74F244M IC MC74HC74AF (KV-28WS3A/28WS3D/28WS3E/28WS3E/2	13707 13708	1-408-403-00 1-408-403-00	INDUCTOR 3.3UH INDUCTOR 3.3UH	
IC511	8-759-925-76	IC SN74BC08ANS (KV-28WS3A/28WS3D/28WS3B/2BWS3K/2	8WS3U)		MSISTOR >	
IC512	8-759-034-91	IC MC74HC74AF (KV-28WS3A/28WS3D/28WS3E/28WS3K/2	Q01 Q02 BWS3U) Q03	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC513		IC MC74HC74AF (KV-28WS3A/28WS3D/28WS3E/28WS3E/2	004	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC1301 IC1302	8-759-368-89	IC TDA8395T/W2	206	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1305 IC3701	8-759-032-11 8-759-362-96	IC CAA1800Q-TE IC MC74HC04AF IC MB81C1501PFTN-G-D-ER	Q301 Q302	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC3702 IC3703	8-759-362-96 8-759-362-96	IC MB81C1501PFTN-G-D-ER IC MB81C1501PFTN-G-D-ER	0304	8-729-216-22	TRANSISTOR 25A1162-G	
IC3704 IC3705 IC3706 IC3707	8-752-337-04 8-752-334-49 8-759-262-03	IC CXA1860Q-T4 IC MC74BC04AF IC MB81C1501PFTN-G-D-ER IC MB81C1501PFTN-G-D-ER IC MB81C1501PFTN-G-D-ER IC CXD1176Q IC CXD1172AM IC MC14577CF IC MC74HC4053F IC CXD2031R-65846GJ0153EN	Q305 Q306 Q307 Q308	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-Q TRANSISTOR 2SC2412K-Q TRANSISTOR 2SC2412K-Q	R R
IC3708	8-759-352-06	IC CXD2031R-65846GJ0153EN	Q309 Q351		TRANSISTOR 2SC2412K-Q	
IC3709 IC3710 IC3712 IC3713	8-759-288-85 8-759-925-74 8-759-100-94 8-759-183-35		Q352 Q353 Q354 Q356	8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QI TRANSISTOR 2SC2412K-QI TRANSISTOR 2SC2412K-QI TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	R (KV-28WS3B) R (KV-28WS3B) (KV-28WS3B)
IC3714	8-759-009-02	IC MC14046BF	Q35B Q359	8-729-900-53	TRANSISTOR 2SA1162-G TRANSISTOR DTC114EK	(KV-20W\$3B)
	< COI	Ī <sub>r</sub> >	Q360 Q501 Q502	8-729-216-22	TRANSISTOR DTA114EK TRANSISTOR 2SA1162-G	
L01 L02 L301 L302 L303	1-408-397-00 1-408-397-00 1-408-403-00 1-408-403-00 1-408-403-00	INDUCTOR 1UH INDUCTOR 3.3UK INDUCTOR 3.3UH	Q503 Q504 Q505 Q506	8-729-216-22 8-729-216-22 8-729-119-78	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1162-G	
1304 1305	1-414-248-11 1-414-248-11	INDUCTOR 2,2UH	Q507	8-729-216-22	(KV-28WS3A/28WS3D/28WS TRANSISTOR 2SA1162-G	3E/28MS 3R/28WS3U)
L306 L307 L308	1-408-403-00 1-408-397-00 1-408-397-00	INDUCTOR 10H	Q508 Q509 Q510 Q1301	8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G (	
L501 L502 L503 L504 L505	1-408-397-00 1-408-397-00 1-414-243-11 1-414-243-11 1-414-243-11	INDUCTOR 1DH (KV-28WS3B) INDUCTOR 1DH INDUCTOR 1DH	Q1302 Q1303 Q1304 Q1305	8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
L506 L507 L508	1-408-397-00 1-408-397-00 1-408-397-00	INDUCTOR 1UH INDUCTOR 1UH	Q1306 Q1307 Q1316	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
1509 1510		INDUCTOR 1UH INDUCTOR 1UH (KV-28WS3A/28WS3D/28WS3E/28WS3K/28	Q1317 01318	8-729-920-74 8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
1511	1-408-397-00	INDUCTOR 1UH (KV-28WS3A/28WS3D/28WS3E/28WS3K/28	Q3700 WS3U) Q3701	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
L512 L513 L1406	1-408-405-00 1-408-405-00 1-408-403-00	INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 3.3UH	03703 03704 03706	8-729-920-74 8-729-920-74	TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR TRANSISTOR DTC114EK	
L3700	1-408-403-00	INDUCTOR 3.3UH	Q3708	8-729-920-74	TRANSISTOR 2SC2412K-QR	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	Ň	REMARK
Q3709 Q3710 Q3712 Q3713	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		R312 R313 R314 R315	1-216-057-00 1-216-659-11 1-216-651-11 1-208-767-11	METAL CHIP	2.2K 2.2K III 240	5% 1/10W 0.50% 1/10W 0.50% 1/10W 0.50% 1/10W
Q3714	8-729-027-43	TRANSISTOR DTC114EKA (KV-28WS3A/28WS3D/28WS3E/2	8WS3K/28WS3U}	R316 R317	1-216-022-00 1-216-043-91	METAL GLAZE	75 560	5% 1/10W 5% 1/10W
	< RES	HISTOR >		R318 R319	1-216-049-91 1-216-097-91	METAL GLAZE METAL GLAZE	1K 100K	5% 1/10W 5% 1/10W
RO1 RO2	1-216-629-11 1-216-635-11	METAL CHIP 120 0.50% METAL CHIP 220 0.50%	1/10W	R320	1-216-051-00	METAL GLAZE	1.2%	5% 1/10W
R03 R04 R05 %	1-216-635-11 1-216-043-91 1-216-043-91		1/10W 1/10W 1/10W	R321 R322 R323	1-216-067-00 1-216-043-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 560 2.2K	5% 1/10W 5% 1/10W 5% 1/10W
R06 R07	1-216-043-91 1-216-663-11	METAL GLAZE 560 5% METAL CHIP 3.3K 0.50%	1/10W 1/10W	R324 R325	1-216-063-91 1-216-097-91	metal glaze Metal glaze	3.9K 100K	5% 1/10W 5% 1/10W
ROB RO9	1-216-659-11 1-216-662-11	METAL CHIP 2.2K 0.50% METAL CHIP 3K 0.50%	1/10W	R326 R327 R328	1-216-091-00 1-216-097-91 1-216-049-91		56K 100K 1K	5% 1/10W 5% 1/10W 5% 1/10W
R24	1-216-655-11	METAL CHIP 1.5K 0.50% (KV-28WS3A/28WS3D/28WS3E/2	8WS3K/28WS3U)	R329 R330	1-216-049-91 1-216-091-00	METAL GLAZE METAL GLAZE	1K 56K	5% 1/10W 5% 1/10W
	1-216-651-11	METAL CHIP 1K 0.50%	(KV-28WS3B)	R331 R332	1-216-075-00 1-216-063-91	METAL GLAZE METAL GLAZE	12K 3.9K	5% 1/10W 5% 1/10W
R25	1-216-655-11 1-216-651-11	METAL CHIP 1.5K 0.50% (KV-28WS3A/28WS3D/28WS3E/2 METAL CHIP 1K 0.50%	8WS3K/28WS3U)	R333 R334 R335	1-216-057-00 1-216-037-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 330 1.2K	5% 1/10W 5% 1/10W 5% 1/10W
R26	1-216-655-11	METAL CHIP 1.5K 0.50%	(KV-28WS3B) 1/10W	R336 R337	1-216-075-00 1-216-043-91	METAL GLAZE METAL GLAZE	12K 560	5% - 1/10W 5% 1/10W
R27 R28 R29	1-216-047-91 1-216-047-91 1-216-047-91	METAL GLAZE 820 5%	1/10W 1/10W 1/10W	R338 R339 R356	1-216-063-91 1-216-057-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 2.2K 2.7K	5% 1/10W 5% - 1/10W 5% 1/10W
R36	1-216-631-11	METAL CHIP 150 0.50%	1/10W			111111111111111111111111111111111111111		(KV-28WS3E)
R37	1-216-631-11	METAL CHIP 150 0.50% (KV-28WS3A/28WS3D/28WS3E/2 METAL CHIP 100 0.50%	8WS3K/28WS3U)	R357	1-216-057-00	METAL CHIP	2.2K 560	5% 1/10W (KV-28WS3B) 0.50% 1/10W
-00			(RV-28WS3B)	R359	1-216-059-00	METAL GLAZE	2.7K	(KV-28WS3IB) 5% 1/10W
R38	1-216-631-11	METAL CHIP 150 0.50% (KV-28WS3A/28WS3D/28WS3B/2 METAL CHIP 100 0.50%	8WS3K/28WS3U)	R360	1-216-645-11	NETAL CHIP	560	(RV-28WS318) 0.50% 1/10W
R53	1-216-295-91	METAL GLAZE 0 - 5%	(KV-28WS3B) 1/10W	R361	1-216-645-11	METAL CHIP	560	(KV-28WS3JB) 0.50% 1/10W
R56	1-216-073-00	METAL GLAZE 10K 5%	1/10W (KV-28WS3B)	R362	1-208-800-11	METAL CHIP	5.6K	(KV-28WS3E) 0.50% 1/10W (KV-28WS3E)
R57	1-216-073-00	(EV-28WS3A/28WS3D/28WS3E/2	-	R363	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W (KV-28WS3JE)
R58 R59 R60	1-216-057-00 1-216-049-91 1-216-073-00	METAL GLAZE 1K 5%	1/10W 1/10W 1/10W	R364 R365	1-216-663-11		3.3K 2.7K	0.50% 1/10W (KV-28WS3ID)
R61 R63	1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W					(KV-28WS31E)
R301	1-216-022-00	(KV-28WS3A/28WS3D/28WS3E/2 METAL GLAZE 75 5%		R367	1-216-059-00 1-216-660-11		2.7K	5% 1/10W (KV-28WS3IP) 0.50% 1/10W
R302 R303 R304	1-216-073-00 1-216-039-00 1-208-767-11	METAL GLAZE 10K 5% METAL GLAZE 390 5% METAL CHIP 240 0.50%	1/10W 1/10W 1/10W	R372	1-216-059-00		2.7R	(KV-28W83 <b>3</b> 8)
R305 R306	1-216-043-91		1/10W 1/10W	R373	1-216-660-11	METAL CHIP	2.4K	0.50% 1/10W (KV-28WS3 <b>E</b> S)
R307 R308 R309	1-216-059-00 1-216-051-00 1-216-664-11	METAL GLAZE 2.7K 5% METAL GLAZE 1.2K 5%	1/10W 1/10W	R374 R375 R376	1-216-025-91 1-216-025-91 1-216-065-00	METAL GLAZE	100 100 4.7K	5% · 1/10W 5% · 1/10W
R310 R311	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R377	1-216-053-00	NETAL GLAZE	1.5K	5% 1/10W
MATT	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R378	1-216-073-00	METAL GLAZE	10K	5% 1/10W

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REFJIO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	DN		REMARK
R501 R502 R505	1-216-025-91 1-216-025-91 1-216-049-91	METAL GLAZE 10	5%	1/10W 1/10W 1/10W	R565	1-216-073-00	METAL GLAZE	10%	5%	1/10W (EV-28WS3B)
R506	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R566	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-28WS3B)
R507 R508	1-216-049-91 1-216-632-11	METAL GLAZE 1K	5%	1/10W 6 1/10W	R567	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R509 R510	1-216-631-11 1-216-631-11	METAL CHIP 150	0.50%	6 1/10W 6 1/10W	R568	1-216-073-00	METAL GLAZE	10K	5%	/28WS3K/28WS3U) 1/10W /28WS3K/28WS3U)
R511 R512	1-216-663-11 1-216-049-91		0.5 <b>0</b> %	4 1/10W 1/10W	R571	1-216-017-91		47	5%	1/10W
R513	1-216-659-11	METAL CHIP 2.2	K 0.50%	1/10W	R575	1-216-033-00		220	5%	/28W\$3K/28W\$3U) 1/10W
R514	1-216-049-91	METAL GLAZE 1K (KV-26WS3A/28WS3I	5% )/28WS3E/	1/10W /28WS3K/28WS3U)	R577	1-216-295-91	METAL GLAZE	0	5%	(KV-28WS3B) 1/10W (KV-28WS3B)
R515	1-216-091-00	METAL GLAZE 561 (KV-28WS3A/28WS3I		1/10W	5 2570	1 817 731 11	10011 4010	450	0 500	-
R516	1-216-077-00			1/10W	R579	1-216-631-11	METAL CHIP	150	0.50%	(KV-28WS3B)
R517 R518	1-216-073-00 1-216-057-00			1/10W	R580	1-216-295-91	METAL GLAZE	0	5%	1/10W
KOTB	1-210-031-00	ESTAL GUALS 2.4	K 5%	1/10W	R582 R583	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W
R519	1-216-053-00			1/10W	*****					
R520 R521	1-216-085-00 1-216-071-00			1/10W 1/10W	R1301 R1302	1-216-049-91 1-216-025-91		1K 100	5% 5%	1/10W 1/10W
R522	1-216-071-00	METAL GLAZE 8.2	K 5%	1/10W	R1303	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R523	1-216-061-00	METAL GLAZE 3.3	K 5%	1/10W	R1304	1-216-081-00		22K	5%	1/10W
R524	1-216-121-91	METAL GLAZE 1M	5%	1/10W	R1305	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R528	1-216-025-91	METAL GLAZE 100		1/10W	R1396	1-216-055-00	metal glaze	1.8K	5%	1/10W
R529	1-218-756-11	(KV-28WS3A/28WS3I	)/28WS3E/ IK 0.50%		R1307	1-216-069-00		5.8K	5%	1/1 OW
R530	1-216-047-91	METAL GLAZE 820		1/10W	R1308 R1310	1-216-049-91 1-216-053-00	METAL GLAZE	1K 1.5K	5% 5%	1/1 OW 1/1 OW
					R1311	1-216-085-00	METAL GLAZE	33K	5%	1/1 OW
R531 R532	1-216-047-91 1-216-295-91		5% 5%	1/10W 1/10W	R1312	1-216-651-11	METAL CHIP	18	0 E00	1/100
	1 220 200 71	marin datan o	J	(KV-28WS3B)	R1313	1-216-065-00		4.7K	5%	1/100
R535	1-216-047-91			1/10W	R1314	1-216-063-91		3.9K	5%	1/1 OW
R536	1-216-025-91	METAL GLAZE 100 (KV-28WS3A/28WS3I		1/10W (28WS3K/28WS3Π)	R1315 R1316	1-208-767-11 1-216-073-00	METAL CHIP METAL GLAZE	240 10x	0.50% 5%	; 1/10W 1/10W
								IUA	۵.۵	I/I Wii
R537	1-216-049-91	METAL GLAZE 1K (KV-28WS3A/28NS3I	5% 120maza 1	1/10W	R1317 R1318	1-216-057-00		2.2K	5%	1/1 GW
R538	1-216-073-00	METAL GLAZE 10F		1/10W	R1319	1-215-049-91	METAL GLAZE METAL GLAZE	1K 6.8K	5% 5%	1/1 OW 1/1 OW
R539	1-216-073-00	NETAL GLAZE 10	5%	(KV-28WS3B) 1/10W	R1320 R1321	1-216-648-11	METAL CHIP METAL GLAZE	750 4.7E	0.50%	1/L OV
	2 220 013 00	Marina Chinan		(KV-28WS3B)						1/1 OV
R540	1-216-073-00	NETAL GLAZE 10F	5%	1/10W	R1322 R1323	1-216-053-00 1-216-049-91		1.5K 1K	5% 5%	1/1 <b>0</b> V 1/1 <b>0</b> V
	2 220 010 00	min dum 101	. 50	(KV-28WS3B)	R1324	1-216-651-11		118		1/1 OW
R\$54	1-216-665-11	NETAL CHIP 3.9	K 0.50%	•	R1325	1-216-063-91		3.9K		1/1 Or
R555	1-216-666-11	METAL CHIP 4.3	K 0.50%	(KV-28WS3B) 1/10W	R1326	1-216-063-91	METAL GLAZE	3.9K	5%	1/1 <b>O</b> W
				(KV-28WS3B)	R1327	1-216-065-00		4.7K		1/1 ON
R556	1-216-631-11	METAL CHIP 150	0.50%	1/10W	R1328 R1329	1-216-073-00 1-216-073-00		10K 10K	5% 5%	1/1 <b>0</b> W 1/1 <b>0</b> W
	1-210-011-11	MEIND CHIL 130	0.500	(KV-28WS3B)	R1330	1-216-073-00		22K	ეზ 5%	1/1 OW
R557	1-216-603-11	METAL CHIP 10	0.50%	1/10W (KV-28WS3B)	R1331	1-216-650-11	METAL CHIP	910	0.50%	1/1 <b>0</b> W
R558	1-216-073-00	NETAL GLAZE 108	5%	1/10W	R1332	1-216-626-11	METAL CRIP	91	0.50%	1/1 OV
				(EV-28WS3B)	R1366	1-216-063-91	METAL GLAZE	3.9K	5%	1/1 OV
R559	1-216-073-00	METAL GLAZE 108	5%	1/10W	R1367 R1368	1-216-049-91 1-216-049-91		1K 1K	5% 5%	1/1 <b>0</b> W 1/1 <b>0</b> W
R560				(KV-28WS3B)	R1369	1-216-083-00		27K	5%	1/1 OY
_	1-216-121-91	METAL GLAZE 1M (KV-28WS3A/28WS3D	5% /28W\$3E/	1/10W 28WS3K/28WS3U)	R1370	1-216-073-00	METAL GLAZE	10K	5%	1/1 <b>O</b> V
R561	1-216-663-11			1/10W	R1371	1-216-049-91	METAL GLAZE	IK	5%	1/1 OF
R562	1-216-031-00	METAL GLAZE 180	5%	1/10W	R1372 R1373	1-216-105-91 1-216-097-91	METAL GLAZE	220K		1/1 <b>O</b> V 1/1 <b>O</b> V
R563	1-216-031-00	METAL GLAZE 180	5%	1/10W	R1373	1-216-097-91		100K	5% 5%	1/10T
R564	1-216-031-00	METAL GLAZE 180	5%	1/10W						
					R1375	1-216-049-91	metal Glase	1R	5%	1/10W

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REF.HO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1376 R1377	1-216-049-91 1-216-057-00	METAL GLAZE 1K METAL GLAZE 2.2K	5% 1/10W 5% 1/10W	R3758	1-216-025-91	METAL GLAZE 100 5% (KV-28WS3A/28WS3D/28WS3	1/10W BE/28WS3K/28WS3U)
R3701	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R3759	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3702	1-216-041-00	METAL GLAZE 470	5% 1/10W	R3760 R3761	1-216-113-00 1-216-079-00	METAL GLAZE 470K 5% METAL GLAZE 18K 5%	1/10W 1/10W
R3703	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W	E210T	1-210-073-00	(KV-28WS3A/28WS3D/28WS3	
R3704	1-216-619-11	METAL CHIP 47	0.50% 1/10W				
R3705	1-216-619-11	METAL CHIP 47	0.50% 1/10W	R3762	1-216-097-91		1/10W
R3706	1-216-619-11	METAL CHIP 47	0.50% 1/10W	707.00	4 446 455 44	(KV-28WS3A/28WS3D/28WS3	
R3707	1-216-025-91	METAL GLAZE 100	5% 1/10W	R3763 R3768	1-216-025-91	METAL GLAZE 100 5% METAL GLAZE 2.2K 5%	1/10W 1/10W
R3708	1-216-025-91	METAL GLAZE 100	5% - 1/10W	R3769	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3709	1-216-041-00	METAL GLAZE 470	5% 1/10W	1			-,
R3710**	1-216-051-00	METAL GLAZE 1.2K		R3770	1-216-041-00	METAL GLAZE 470 5%	. 1/10W
R3711	1-216-057-00	METAL GLAZE 2.2K METAL GLAZE 2.2K		R3771 R3772	1-216-073-00 1-216-037-00	METAL GLAZE 10R 5% METAL GLAZE 330 5%	1/10W
R3712	1-216-057-00	METAL GLAZE 2.2K	2.0 T\TAM	R3112	1-216-03/-00	METAL GLAZE 330 5% (KV-28WS3A/28WS3D/28WS3	1/10W (R/28WS3K/28WS3TI)
R3713	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R3773	1-216-037-00		1/10W
R3714	1-215-067-00	METAL GLAZE 5.6K				(KV-28WS3A/28WS3D/28WS3	E/28WS3E/28WS3U)
R3715	1-216-067-00	METAL GLAZE 5.6K		22774	4 646 653 66	100 CA	° 4 (4 Ave
R3716 R3717	1-216-067-00 1-216-025-91	METAL GLAZE 5.6K METAL GLAZE 100	5% 1/10W 5% 1/10W	R3774 R3775	1-216-073-00 1-216-073-00	METAL GLAZE 10K 5% METAL GLAZE 10K 5%	1/10W 1/10W
WO.7 T.	1-210-023-31	ABIAL GLASS 200	5.0 Ti TAM	R3776	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3718	1-216-025-91	METAL GLAZE 100	5% . 1/10W	R3777	1-216-073-00	NETAL GLAZE 10K 5%	1/10W
R3719	1-216-041-00	METAL GLAZE 470	5% 1/10W	R3778	1-216-295-91	METAL GLAZE 0 5%	1/10W
R3720 R3722	1-216-073-00 1-216-073-00	METAL GLAZE 10K METAL GLAZE 10K	5% 1/10W 5% 1/10W	i			(KV-28WS3B)
1,7/22	1-210-017-00	WEIGH AIMER TAR	3.0 Tl TOM	R3779	1-216-295-91	METAL GLAZE 0 - 5%	1/10W
R3723	1-216-041-00	METAL GLAZE 470	5% 1/10W				(KV-28WS3B)
	1 046 010 01		28WS3E/28WS3K/28WS3U)	R3780	1-216-295-91	METAL GLAZE 0 5%	1/10W
	1-216-049-91	METAL GLAZE 1K	5% 1/10W (KV-28WS3B)	R3781	1-216-033-00	METAL GLAZE 220 5%	(KV-28WS3B) 1/10W
R3724	1-216-057-00	METAL GLAZE 2.2K		. AJ/UI	1-210-033-00	(KV-28WS3A/28WS3D/28WS3	
R3725	1-216-043-91	NETAL GLAZE 560	5% 1/10W	R3782	1-216-065-91	METAL GLAZE 4.7K 5%	1/10W
R3726 R3727	1-216-043-91 1-216-043-91	METAL GLAZE 560 METAL GLAZE 560	5% 1/10W 5% 1/10W	R3783	1-216-059-91	(RV-28MS3A/28WS3D/28WS3 METAL GLAZE 2.7K 5%	1/10W
R3729	1-216-073-00	METAL GLAZE 10K	5% 1/10W	312103	1 210 037 71	MILITAL CENTED STAR DE	11 704
R3730	1-216-049-91	METAL GLAZE 1K	5% 1/10W		< CRY	STAL >	
R3731	1-216-057-00	METAL GLAZE 2.2K	5% - 1/10W	X301	1-760-957-91	VIBRATOR, CRYSTAL (17.8	Tall - 1
R3732	1-216-025-91	NETAL GLAZE 100	5% 1/10W	X302	1-527-722-00	OSCILLATOR, CRYSTAL (14	.3MHz)
R3734	1-216-041-00	NETAL GLAZE 470	5% 1/10W	<b>X3700</b>	1-567-504-11	OSCILLATOR, CRYSTAL (4.	43MHz)
R3735	1-216-073-00	METAL GLAZE 10K	5% 1/10W	-5004	4 000 000 44	(KV-20WS3A/26WS3D/26WS3	
R3736	1-216-089-91		5% - 1/10W 28WS3E/28WS3K/28WS3U)	X3701	1-567-505-11	OSCILLATOR, CRYSTAL (3. (KY-28WS3A/28WS3D/28WS3	
			######################################			(ILI - BUNDON) BUNDON BUNDO	Dianusiki sampioj
R3737	1-216-057-00		. 5% 1/10W	******	********	*********	*********
R3738 R3739	1-216-057-00 1-216-057-00		5% 1/10W 5% 1/10W		+11670_060_1	B2 BOARD, COMPLETE (KV-	2006201
R3740	1-216-073-00		5% 1/10W		-H-1020-000-A	######################################	MONDOD)
R3741	1-216-121-91		5% 1/10W				
D2742	4 844 844 83		Ph. C. of Jd Sup	< CAPACITOR >			
R3742 R3743	1-216-041-00 1-216-085-00		5% 1/10W 5% 1/10W	C9001	1-104-565-11	ELECT 100MF	20% 257
R3745	1-216-033-00		5% 1/10W	C9002	1-163-038-91	-	257
			(KV-28WS3B)	C9003	1-163-038-91	CERAMIC CHIP 0.1MF	257
R3746	1-216-073-00	METAL GLAZE 10K	5% - 1/10W	C9004	1-164-337-11		167
R3748	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C9005	1-163-038-91	CERAMIC CHIP 0.1MF	25₹
R3749	1-216-089-91	METAL GLAZE 47K	5% 1/10W	C9006	1-163-096-00		5% 50V
R3750	1-216-033-00		5% 1/10W	C9007		CERAMIC CHIP 15PF	5% 507
R3753 R3754	1-216-073-00		5% 1/10W 5% 1/10W	C9008 C9009	1-163-017-00	·	10% 507
Wat A.E	1-216-081-00		28WS3E/28WS3K/28WS3U)	C9010	1-163-809-11		10% 257 10% 257
			·				-
R3755	1-216-079-00			C9013 C9014	1-164-222-11		257 10% 507
R3756	1-216-025-91	METAL GLAZE 100	28WS3E/28WS3K/28WS3U) 5% 1/10W	C9014	1-163-017-00	CERAMIC CHIP 0.0047MF BLECT 10MF	10% 50T 20% 50T
_4==-	_	(KV-28WS3A/28WS3D/	28WS3E/28WS3R/28WS3U)	C9016	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 5 <b>0</b> T
R3757	1-216-073-00	METAL GLAZE 10K	5% 1/10W	C9017	1-163-989-11	CERAMIC CHIP 0.033MF	10% 257
		(AY-28W\$3A/28W83D/	28WS3E/28WS3K/28WS3U)	F			

The components identified by shading and marked  $\hat{x}$ , are critical for safety

for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque - f - sont critiques pour la securite. Ne les remptacer que par une piece portant le numero specifie.





REF.NO.	PART NO.	DESCRIPTION	REA	MARK	REF.NO.	PART NO.	DESCRIPTIO	N	REMARK
C9018 C9019 C9020	1-163-133-00 1-104-665-11		10% 25 5% 50 20% 25	DV SV	R9009 R9010	1-216-065-00 1-216-262-00		4.7K 5% 470K 5%	1/10W 1/8W
C9021 C9022	1-164-182-11 1-163-121-00		10% <sup>2</sup> 50 5% 50	DV V	R9011 R9012 R9013	1-216-097-91 1-216-063-91 1-216-208-00	NETAL GLAZE	100K 5% 3.9K 5% 2.7K 5%	1/10W 1/10W 1/8W
C9023 C9024 C9025	1-163-037-11 1-164-182-11 1-164-232-11		10% 25 10% 50 10% 50	V	R9014 R9015	1-216-214-00 1-216-073-00	METAL GLAZE	4.7K 5% 10K 5%	1/8W 1/10W
C9026 C9027	1-163-017-00 1-164-004-11	CERAMIC CEIP 0.0047MF	10% 50 10% 25		R9016 R9017 R9018	1-216-663-11 1-216-113-00 1-216-049-91	METAL GLAZE	3.3K 0.50 470K 5% 1K 5%	0% 1/10W 1/10W 1/10W
C9028	1-124-925-11	ELECT 2.2MF	20% 50	w	R9019 R9020	1-216-073-00 1-216-085-00		10K 5% 33K 5%	1/10W 1/10W
	< C09	RECTOR >		-					,
CN9001	1-695-300-11	CONNECTOR, BOARD TO BO	ARD 20P		R9021 R9022	1-216-049-91 1-216-057-00	METAL GLAZE	1K 5% 2.2K 5%	1/10W 1/10W
	< DIO	ODE >			R9023 R9024	1-216-057-00 1-216-067-00	METAL GLAZE METAL GLAZE	2.2K 5% 5.6K 5%	1/10W 1/10W
D9002	8-719-914-43	DIODE DAN202K		İ	R9025	1-216-075-00	METAL GLAZE	12K 5%	1/10W
D9003	8-719-401-92	DIODE MA3082M-TX		į	R9026	1-216-053-00		1.5K 5%	1/1 <b>0</b> ₩
	< IC	>		i	R9027 R9028	1-216-105-91 1-216-041-00		220K 5% 470 5%	1/10W 1/10W
IC9001	8-759-343-40	IC TDA9145/N3D			R9029 R9030	1-216-089-91 1-216-063-91		47K 5% 3.9K 5%	1/10W
IC9002		IC TRA2130		ļ					1/10W
	< TRI	UNSISTOR >		- and market	R9031 R9032	1-216-025-91 1-216-049-91	METAL GLAZE	100 5% 1K 5%	1/10W 1/10W
Q9001	8_709_920_74	TRANSISTOR 2SC2412K-QR			R9033 R9034	1-216-073-00 1-216-065-00		10K 5%	1/10W
Q9002	8-729-920-74	TRANSISTOR 2SC2412K-QR		-	R9035	1-249-403-11		4.7⊼ 5% ■ 5%	1/10W 1/4W F
Q9003 Q9004	8-729-920-74 8-729-901-04	TRANSISTOR 2SC2412K-OR TRANSISTOR DTA114EK			R9036	<u> 1-216-037-00</u>	METAL CLAZE	330 5%	1/10W
Q9005	8-729-216-22	TRANSISTOR 28A1162-G			R9037	1-216-037-00	METAL GLAZE	330 5%	1/10W
Q9006	8-729-901-04				R9038 R9039	1-216-073-00 1-216-073-00		10K 5% 10K 5%	1/10W 1/10W
Q9007 Q9008	8-729-920-74 8-729-920-74				R9040	1-216-073-00	METAL GLASE	10K 5%	1/10W
	< RES	SISTOR >		,		< CRY	STAL >		
JR9001	1-216-296-91		4 (Dag	ŀ	X9001	1-567-504-11	OSCILLATOR, C	RYSTAL (4.4	3MHz)
JR9002	1-216-295-91	METAL GLAZE 0 5%	1/8W 1/10W		X9002 X9003	1-567-888-11	OSCILLATOR, CO	RYSTAL (3.5) BRAMIC (500)	8MH2} KH2}
JR9003 JR9004 JR9005	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W		*****	*********			*****
JR9006 JR9007	1-216-295-91 1-216-295-91		1/10W 1/10W			*A-1624-052-A	F1 BOARD, COM	PLETE ****	
JR9008 JR9009	1-216-295-91 1-216-295-91		1/10W 1/10W			< CON	MECTOR >		
JR9010	1-216-295-91		1/10W		CM0007	↑ *1-580-844-11 ↑ *1-695-292-11	PIN, CONNECTOR	R (POWER)	
JR9011 JR9012	1-216-296-91 1-216-296-91	METAL GLAZE 0 5%	1/8W 1/8W		CHOOP	< FUS		y (compay)	
JR9013 JR9014 JR9015	1-216-296-91 1-216-296-91 1-216-295-91	METAL GLAZE 0 5%	1/8W 1/8W 1 <b>/10</b> W	İ	F651	A 1-576-232-21 1-533-230-11	FUSE (R.B.C.) HOLDER, FUSE;	(5A 250V) P651	
JR9016	1-216-295-91		1/10W			< SMI	TCH >		
JR9017	1-216-295-91		1/10W	j	S651	À 1-571-433-21	SWITCE, PUSH	(AC POWER)	
R9001 R9002	1-216-025-91 1-216-033-00		1/10W 1/10W						
R9003	1-216-033-00	METAL GLAZE 220 5%	1/10W						
R9004 R9005	1-216-097-91 1-216-025-91		1/10W 1/10W						
R9006	1-216-025-91	METAL GLAZE 100 5%	1/10W						
R9007 R9008	1-216-049-91 1-216-041-00	METAL GLAZE 1K 5%	1/10W 1/10W						
	1-710-041-00	Marau Guade 4/0 34	1/ 10W						



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	Ŗ	EMARK
	*A-1626-004-A	*******	28WS3A/28WS3D/ 28WS3E/28WS3E/ 28WS3U)	C3572 C3573 C3574 C3575 C3577	1-165-319-11 1-165-319-11 1-165-319-11 1-126-964-11 1-126-964-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 10MF	20%	50V 50V 50V 50V 50V
C3501 C3504 C3505 C3507 C3508	1-164-004-11 1-164-004-11 1-164-326-91 1-165-319-11 1-163-009-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF	10% 25V 10% 25V 10% 25V 50V 10% 50V	C3578 C3579 C3580 C3581 C3582	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF		50V 50V 50V 50V 50V
C3509 C3510 C3511 C3515 C3517	1-163-009-11 1-163-009-11 1-124-903-11 1-126-964-11 1-163-099-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF ELECT 1MF ELECT 10MF CERAMIC CHIP 18PF	10% 50V 10% 50V 20% 50V 20% 50V 5% 50V	C3583 C3584 C3585 C3586 C3587	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-126-964-11	CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF ELECT 10MF		50V 50V 50V 50V 50V
C3519 C3521 C3522 C3523 C3524	1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11	BLECT 10MF ELECT 10MF ELECT 10MF ELECT 10MF ELECT 10MF	20% 50V 20% 50V 20% 50V 20% 50V 20% 50V	C3588 C3589 C3590 C3591 C3592	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		507 507 507 507 507
C3525 C3526 C3527 C3528 C3529	1-104-664-11 1-104-664-11 1-165-319-11 1-165-319-11 1-165-319-11	ELECT 47MF ELECT 47MF CERAMIC CHIP 0.1EF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 25V 20% 25V 50V 50V 50V	C3593 C3594 C3595 C3596 C3597	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-126-964-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF ELECT 10MF		50V 50V 50V 50V 50V
C3530 C3531 C3533 C3534 C3535	1-165-319-11 1-163-099-00 1-165-319-11 1-165-319-11 1-163-009-11	CERANIC CHIP 0.1MF CERANIC CHIP 18PF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.001MF	50V 5% 50V 50V 50V 10% 50V	C3598 C3599 C3602 C3603 C3604	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		50V 50V 50V 50V 50V
C3536 C3537 C3538 C3539 C3540	1-165-319-11 1-165-319-11 1-165-319-11 1-126-964-11 1-165-319-11	CERANIC CEIP 0.1MF CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF ELECT 10MF CERANIC CHIP 0.1MF	50V 50V 50V 20% 50V 50V	C3605 C3608 C3609 C3610 C3614	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		507 507 507 507 507
C3541 C3542 C3543 C3544 C3545	1-165-319-11 1-165-319-11 1-126-964-11 1-163-105-00 1-163-121-00	CERANIC CHIP 0.1MF CERANIC CHIP 0.1MF ELECT 10MF CERANIC CHIP 33PF CERANIC CHIP 150PF	50V 50V 20% 50V 5% 50V 5% 50V	C3615 C3616 C3617 C3618 C3619	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		507 507 507 507 507
C3546 C3547 C3549 C3550 C3552	1-163-121-00 1-165-319-11 1-126-964-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF ELECT 19MF CERAMIC CHIP 0.1MF	5% 50V 50V 20% 50V 50V 50V	C3620 C3621 C3622 C3623 C3624	1-165-319-11 1-165-319-11 1-126-964-11 1-126-964-11 1-165-319-11	CERAMIC CHIP 0.1MF ELECT 10MF ELECT 10MF	20% 20%	50V 50V 50V 50V
C3553 C3554 C3555 C3556 C3557	1-165-319-11 1-165-319-11 1-126-964-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 0.1MF	50V 50V 20% 50V 50V 50V	C3625 C3626 C3628 C3629 C3631	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-126-964-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF		50V 50V 50V 50V
C3558 C3559 C3560 C3562 C3563	1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	50V 50V 50V 50V 50V	C3632 C3633 C3634 C3635 C3637	1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11	BLECT 10MF BLECT 10MF BLECT 10MF	20% 20% 20%	50V 50V 50V 50V
C3565 C3568 C3569 C3570 C3571	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.1MF	50V 50V 50V 50V	C3641 ·	1-104-664-11 < CON	NECTOR >	20% 2	50 <b>v</b> 25 <b>v</b>
				CN3502	1-023-200-11	CONNECTOR, BOARD TO	BUAKU 20P	

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	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON		Ī	REMARK
	CN3503	1-595-513-21 < FE	SOCKET, CONNEK	CTOR 30P		Q3502 Q3503 Q3504	8-729-216-22 8-729-216-22 8-729-920-74	TRANSISTOR 2 TRANSISTOR 2	SA1162-G SC2412K-G	OR.		
	FB3501	1-414-234-11	INDUCTOR, FERE	RITE BEAD		Q3505	8-729-920-74	TRANSISTOR 2	SC2412K-0	QR		
	FB3502 FB3550	1-414-234-11 1-414-234-11	INDUCTOR, FERE	CTOR 30P  HITE BEAD  HITE BEAD  HITE BEAD  R >		Q3506 Q3507 Q3512	8-729-216-22 8-729-119-78 8-729-027-59	TRANSISTOR 2	SC2785-HI	FB -T146		
	BT 3500	1 222 426 04	Whomwigh birth	.K >		Q3513	8-729-216-22		SA1162-G			
	FL3503	1-233-435-11	FILTER, LOW PA	28 28			< RES	ISTOR >				
31	FL3504	1-236-071-11	ENCAPSULATED C	OMPONENT OMPONENT		JR3501	1-216-295-91			5% 1	L/10W	
	FL3506 FL3507 FL3509 FL3512 FL3513	1-236-071-11 1-236-071-11 1-236-071-11 1-236-071-11	ENCAPSULATED C ENCAPSULATED C ENCAPSULATED C ENCAPSULATED C	ER >  SB SS COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT COMPONENT		R3501 R3502 R3503 R3504 R3506	1-216-665-11 1-216-666-11 1-216-631-11 1-216-025-91 1-216-065-00	METAL CHIP METAL CHIP METAL GLAZE	4.3K 0 150 0 100 5	1.50% 1 1.50% 1 1% 2	L/10W	
	FL3514	1-236-071-11	ENCAPSULATED C	OMPONENT		R3508	1-216-603-11	METAL CHIP	10 , 0	.50% 1		
	FL3515 FL3516	1-236-071-11 1-236-071-11	ENCAPSULATED C	OMPONENT OMPONENT		R3512 R3513 R3516	1-216-025-91 1-216-025-91 1-216-049-91 1-216-645-11	METAL GLAZE METAL GLAZE	100 5 III 5	% 1 % 1	/10W ./10W ./10W	
		< 10	>			D2510	1-210-043-11					
	103501 103503 103504 103506 103507	8-759-350-07 8-759-366-14 8-759-033-02 8-759-034-75 8-759-034-75	IC SDA9205-2GE IC CY7C291A-35 IC MC74F04M IC MC74F157AM- IC MC74F157AM-	G JC-AE302 T2 T2		R3518 R3519 R3522 R3523 R3524	1-216-663-11 1-216-049-91 1-216-049-91 1-216-645-11 1-215-663-11	METAL GLAZE METAL GLAZE METAL CHIP	1K 5	% 1 % 1 .50% 1	/10W /10W /10W	
	IC3508 IC3509 IC3510 IC3511 IC3512	8-759-034-75 8-759-034-75 8-759-034-75 8-759-351-57 8-759-358-55	IC MC74F157AM- IC MC74F157AM- IC MC74F157AM- IC TMC57110-D7 IC P83C652FBA/	G JC-AE302 T2 T2 T2 T2 T2 T2 T2 T527FB		R3525 R3528 R3529 R3530 R3531	1-216-049-91 1-216-049-91 1-216-645-11 1-216-049-91 1-208-800-11	METAL GLAZE METAL CHIP METAL GLAZE	1K 59	% 1 .50% 1 % 1	/10W	
	IC3513 IC3514 IC3515 IC3516	8-759-351-56 8-759-297-80 8-759-297-80 8-759-350-05	IC TMC57120-D7 IC MSM514222B- IC MSM514222B- IC MSM548333TS	7523PJ 30GS-KR1 30GS-KR1 -K		R3536 R3537 R3538 R3539	1-216-057-00 1-216-295-91 1-216-295-91 1-216-061-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 59 0 59 3.3K 59 3.3K 59	k 1 k 1 k 1	/10W /10W /10W /10W /10W	
	IC3520 IC3521 IC3525	8-759-355-73 8-759-233-64 8-759-503-65 8-759-503-65	IC EPN7032LC44- IC TC74HCU04AP IC SN74BCT245H;	-15-AE301 5-T5R 3-T5R		R3542 R3544 R3545 R3546 R3547	1-216-295-91 1-216-025-91 1-216-025-91 1-216-025-91 1-216-025-91	METAL GLAZE	0 59 100 59 100 59 100 59 100 59	i 1,	/10W /10W /10W /10W /10W	
	IC3528	8-759-034-75	IC MC74F157AM-1	<u> 2</u>		R3548 R3549	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE	100 59 100 59		/1050 /1050	
		< COI	G >			R3550 R3551	1-216-025-91 1-216-025-91	METAL GLAZE	100 5% 100 5%	1,	/1000 /1000	
	L3501 L3502 L3503	1-408-409-00 1-410-209-51 1-408-409-00	INDUCTOR CHIP	10UE 27UE 10UH	Ş	R3552 R3553 R3554		METAL GLAZE METAL GLAZE	100 5% 2.2K 5% 2.2K 5%	1,	/1007 /1009 /1000	
	L3504 L3505 L3506	1-408-401-00 1-408-401-00	INDUCTOR INDUCTOR	2.20H 2.20H		R3555 R3556	1-216-057-00 1-216-001-00	netal Glaze Metal Glaze	2.2K 5% 10 5% 10 5%	1/	1004 1004 1004	
	L3507 L3508 L3509 L3510	1-408-401-00 1-408-401-00 1-410-213-51 1-408-401-00 1-408-401-00	INDUCTOR INDUCTOR CHIP INDUCTOR INDUCTOR	2.20H 2.20H 56UH 2.20H 2.20H	La de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la const	R3559 R3560 R3561	1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	10 5% 10 5% 10 5% 10 5% 10 5%	1/ 1/ 1/	1000 1000 1000 1000 1000	
	L3511	1-408-401-60	INDUCTOR	2.2011			1-216-001-00		10 5%		1007	
	Q3501		ISISTOR > TRANSISTOR 2SC2	412k_0p		R3564 R3565	1-216-017-91 : 1-216-017-91 :	METAL GLAZE METAL GLAZE	47 5% 47 5%	1/	10N2 10N2	
		3 - 123 - 72U - 14	TARRESTOR ASCA	#140_AV		R3566	1-216-017-91	METAL GLASE	47 5%	1/	100	

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REF.NO.	PART NO.	DESCRIPTION	<u> </u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R3567	1-216-017-91	METAL GLAZE	47	5%	1/10W	R3631	1-216-001-00	METAL GLAZE	10	5%	1/10W
R3568 R3569 R3570 R3571 R3572	1-216-017-91 1-216-017-91 1-216-017-91 1-216-017-91 1-216-017-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 47 47 47 47	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3632 R3633 R3634 R3637 R3638	1-216-001-00 1-216-025-91 1-216-025-91 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 100 100 100 10	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3573 R3574 R3575 R3577 R3579	1-216-017-91 1-216-017-91 1-216-017-91 1-216-295-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 47 47 0 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3639 R3640 R3641 R3642 R3643	1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10 10	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3580 R3582 R3583 R3584 R3585	1-216-057-00 1-216-057-00 1-216-057-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 2.2K 10 10	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3644 R3646 R3647 R3649 R3650	1-216-001-00 1-216-001-00 1-216-001-00 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3586 R3587 R3588 R3589 R3590	1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10 10 10	5% 5% 5% 5%	. 1/10W 1/10W 1/10W 1/10W 1/10W	R3651 R3652 R3661 R3663 R3664	1-216-057-00 1-216-041-00 1-216-025-91 1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 470 100 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3591 R3592 R3593 R3594 R3595	1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10 10	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3672 R3673 R3674 R3675 R3676	1-216-660-11 1-216-660-11 1-216-017-91 1-216-017-91 1-216-017-91	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	2.4K 2.4K 47 47		% 1/10W % 1/10W 1/10W 1/10W
R3596 R3597 R3598 R3599 R3600	1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10 10 560	5%	- 1/10W - 1/10W - 1/10W - 1/10W - 1/10W	R3677 R3678 R3679 R3680 R3681	1-316-017-91 1-216-017-91 1-216-017-91 1-216-017-91 1-216-017-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 47 47 47	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3601 R3602 R3603 R3604 R3605	1-216-061-00 1-216-043-91 1-216-043-91 1-216-043-91 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 560 560 560 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3682 R3683 R3684 R3685 R3686	1-216-017-91 1-216-017-91 1-216-017-91 1-216-017-91 1-215-017-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 47 47 47 47	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3606 R3607 R3608 R3609 R3610	1-216-043-91 1-216-043-91 1-216-043-91 1-216-043-91 1-216-043-91	metal GLAZE Metal GLAZE Metal GLAZE	560 560 560 560 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3687 R3688 R3689 R3690 R3698	1-216-017-91 1-216-017-91 1-216-017-91 1-216-631-11 1-216-295-91	METAL GLAZE METAL GLAZE METAL CHIP	47 47 47 150 0	5% 5% 5% 0.50 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R3611 R3612 R3613 R3614 R3615	1-216-043-91 1-216-043-91 1-216-043-91 1-216-043-91 1-216-043-91	metal glaze Netal glaze Metal glaze	560 560 560 560 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R3700 R3701 R3702 R3703	1-216-017-91 1-216-033-00 1-216-017-91 1-216-043-91	METAL GLAZE METAL GLAZE	47 220 47 560	5% 5% 5%	1/10W - 1/10W - 1/10W 1/10W
R3616 R3617		METAL GLAZE METAL GLAZE	2.2K 100	5% 5%	1/10W 1/10W	x3502		VIBRATOR, CR	YSTAL (	12MHz	}
R3618 R3619	1-216-017-91 1-216-017-91	metal glaze metal glaze	47 47	5% 5%	1/10W 1/10W		********			•	
R3620 R3621		METAL GLAZE	47	5% 5%	1/10W 1/10W		*A-1630-368-A	Al BOARD, CO			
R3622 R3623 R3625 R3626	1-216-017-91 1-216-001-00 1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	47 10 10 10	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C1236	1-164-348-11	PACITOR >	0.1200	, .	10% 257
R3627 R3628 R3629 R3630	1-216-001-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 10 10	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C1237 C1238 C1239 C1240	1-164-004-11 1-163-986-00 1-163-986-00	CERAMIC CHIP CERAMIC CHIP	0.0271	Œ	10% 25V 10% 25V 10% 25V 10% 50V

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	REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIP	TION		REMARK
	C1241 C1242 C1243 C1244 C1245	1-163-010-11		0.0027MF 0.0027MF 0.0012MF	10% 5% 5% 10% 10%	50V 50V 50V 50V 50V	C3245 C3246 C3247 C3248 C3249	1-107-823-11 1-126-964-11 1-107-823-11 1-107-823-11 1-163-133-00	ELECT CERAMIC CHI CERAMIC CHI	10MF IP 0.47MF IP 0.47MF	10% 20% 10% 10% 5%	16V 50V 16V 16V 50V
	C1246 C1247 C1248 C1249 C1250	1-126-965-11 1-126-933-11 1-164-348-11 1-164-004-11 1-163-986-00	ELECT CBRAMIC CEIF CERAMIC CHIP	0.1MF	20% 20% 10% 10% 10%	50¥ 16¥ 25¥ 25¥ 25¥	C3250 C3251 C3252 C3253 C3254	1-107-823-11 1-107-823-11 1-163-133-00 1-163-023-00 1-163-023-00	CERAMIC CHI	P 0.47MP P 470PP P 0.015MF	10% 10% 5% 10% 10%	16V 16V 50V 50V 50V
;	C1251 C1252 C1253 C1254 C1255	1-163-986-00 1-163-022-00 1-164-232-11 1-163-014-00 1-163-014-00	CERANIC CHIP	0.012MF 0.01MF 0.0027MF	10% 10% 10% 5% 5%	25V 50V 50V 50V 50V	C3255 C3256 C3257 C3258 C3259	1-163-809-11 1-163-011-11	CERAMIC CHI CERAMIC CHI	P 0.047MF P 0.0015MF	10% 10% 10% 10% 20%	25V 25V 50V 50V 16V
	C1256 C1257 C1264 C3201 C3202	1-163-010-11 1-163-009-11 1-164-232-11 1-124-925-11 1-126-934-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.001MF	10% 10% 10% 20% 20%	50V 50V 50V 50V 16V	C3267	1-164-232-11 1-136-157-00 1-136-161-00 1-164-232-11 1-164-232-11	FILM FILM CERAMIC CRI	0.022MF 0.047MF P 0.01MF	10% 5% 5% 10%	50V 50V 50V 50V 50V
	C3203 C3204 C3205 C3206 C3207	1-107-682-11 1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11	ELECT ELECT	1MF 10MF 10MF 10MF 10MF	10% 20% 20% 20% 20%	16V 50V 50V 50V 50V	C3269 C3270		CERAMIC CHI CERAMIC CHI NNECTOR >	P 0.47MF P 0.47MF	10% 10%	16V 16V
	C3208		CERAMIC CHIP		10%	16V	CN1101	1-695-300-11	CONNECTOR, 1	SOARD TO BOA	ARD 20P	
	C3209 C3210	1-136-159-00 1-136-480-11	FILM	0.033MP 0.0015MF	5% 5%	50V 100V		< FE	RRITE BEAD >			
	C3211 C3212	1-136-159-00 1-126-934-11		0.033MF 220MF	5% 20%	50V 16V	FB1104	1-410-396-41	PERRITE BEAL	INDUCTOR O	.450E	
	C3215	1-126-934-11		220MF	20%	16∀	İ	< IC	>			
. 1	C3216 C3217 C3218 C3219	1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11	ELECT ELECT	10MF 10MF 10MP 10MF	20% 20% 20% 20%	50V 50V 50V 50V	IC1205 IC3201 IC3202 IC3203	8-759-257-64 8-759-248-74 8-759-341-23 8-759-266-65	IC LA2785 IC LV1011	;		
	C3220 C3221	1-126-934-11 1-107-682-11	CERAMIC CHIP	220MF 1MF	20% 10%	16V 16V		< COI	L >			
(	03222 03223 03224	1-107-682-11 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF 0.1MF 0.1MF	10% 10% 10%	16V 25V 25V	L1203 L3201 L3202	1-408-419-00 1-408-419-00 1-408-419-00	INDUCTOR	AU83 AU83 AU83		
(	3225 3226	1-107-823-11 1-131-351-00	TANTALUM	4.7MF	10% 10%	16V 35V		< TRA	NSISTOR >			
(	132 <b>27</b> 132 <b>2</b> 8 132 <b>2</b> 9	1-107-823-11 1-131-351-00 1-164-492-11	TANTALUM	4.7MP	10% 10% 10%	16V 35V 16V	Q1203 Q1204	8-729-901-01 8-729-901-01	TRANSISTOR D	TC144EK TC144EK		
	3230 3231	1-131-350-00 1-164-492-11	TANTALUN CERAMIC CHIP	3.3MF 0.15MP	10% 10%	35V 16V	JR3201		ISTOR >		4.44**	
-0	3232	1-164-492-11 1-131-350-00	CERAMIC CHIP	0.15MF 3.3MF	10% 10%	16V 35V	JR3202	1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5%	1/10pd 1/10pd	
	3234	1-164-492-11		0.15MP	10%	16▼	R1131 R1132	1-216-041-00 1-216-041-00	METAL GLAZE	470 5%	1/100	
0	3235 3236	1-131-351-00 1-107-823-11	TANTALUM CERAMIC CHIR	4.7MF	10% 10%	35V 16V	R1246 R1247	1-216-065-00	METAL GLAZE	470 5% 4.7K 5%	1/10N 1/10N	
C	3237	1-131-351-00 1-107-823-11	TANTALUH	4.7MF	16% 16%	35V 16V	R1248	1-216-089-91 1-216-065-00	METAL GLAZE	47K 5% 4.7K 5%	1/10N7 1/10N7	
		1-164-004-11	CERAMIC CHIP	0.110	10%	25V	R1249 R1250	1-216-089-91		47K 5%	1/100	
	3240 3241	1-164-004-11 1-126-967-11	CERANIC CEIP	0.1MF 47MP	10% 20%	25V 16V	R1251	1-216-065-00 1-216-089-91	METAL GLAZE	4.7K 5% 47K 5%	1/100	
C	3242	1-137-189-91 1-126-964-11	FILM	0.18MF 10MF	5% 20%	50V 50V	R1252 R1253	1-215-065-00 1-215-089-91	METAL GLAZE	4.7K 5% 47K 5%	1/10W 1/10W	
		1-163-137-00	CERAMIC CHIP		20% 5%	50V	R1254 R1255	1-216-065-00 1-216-089-91	METAL GLAZE METAL GLAZE	4.7K 5% 47K 5%	1/10 <b>y</b> 1/10 <b>y</b>	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	- PART NO.	DESCRIPTION	REMARK
R1256 R1257 R1258	1-216-025-91 1-216-025-91 1-216-089-91	METAL GLAZE 100 5 METAL GLAZE 47K 5	1/10W 1/10W 1/10W	C023 C024 C025 C026	1-164-004-11 1-164-004-11 1-164-222-11 1-164-222-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10% 25V 10% 25V 25V 25V
R1259 R1260 R1261 R1262 R1263	1-216-065-00 1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00	METAL GLAZE 47K 5 METAL GLAZE 4.7K 5 METAL GLAZE 47K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	C027 C028 C032 C042 C072	1-164-346-11 1-126-964-11 1-163-185-00 1-164-346-11 1-126-934-11	CERAMIC CHIP 1MF  ELECT 10MF CERAMIC CHIP 150PF CERAMIC CHIP 1MF ELECT 220MF	16V 20% - 50V 5% - 50V 16V 20% - 16V
R1264 R1265 R1266 R1267 R1268	1-216-089-91 1-216-065-00 1-216-089-91 1-216-065-00 1-216-295-91	METAL GLAZE 4.7K 5 METAL GLAZE 47K 5 METAL GLAZE 4.7K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	C103 C104 C105	1-163-113-00 1-164-004-11 1-126-934-11 1-126-965-11	CERAMIC CHIP 68PF  CERAMIC CHIP 0.1MF  RLECT 220MF  ELECT 22MF	10% 25V 20% 16V 20% 50V
R1269 R1270 R1271 R3201	1-216-295-91 1-216-033-00 1-216-033-00 1-216-689-11	METAL GLAZE 0 5 METAL GLAZE 220 5 METAL GLAZE 220 5	% 1/10W % 1/10W % 1/10W % 1/10W	C106	1-124-927-11 1-126-933-11	ELECT 4.7MF (KV-28WS3A/28WS3D/28WS ELECT 100MF	20% 50∀
R3202	1-216-228-00	METAL GLAZE 18K 5	% 1/8W	C107	1-126-934-11	BLECT 220MF	20% 16V
R3204 R3205 R3206 R3207 R3208	1-216-025-91 1-216-025-91 1-216-033-00 1-216-033-00 1-216-025-91	METAL GLAZE 100 5 METAL GLAZE 220 5 METAL GLAZE 220 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	C120 C201 C202 C203 C204	1-153-031-11 1-163-078-11 1-163-078-11 1-107-823-11 1-107-823-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF	50V 10% 25V 10% 25V 10% 16V 10% 16V
R3209 R3210 R3211	1-216-025-91 1-216-085-00 1-208-854-11	METAL GLAZE 33K 5	% 1/10W % 1/10W 0.50% 1/10W	C205 C206	1-126-964-11 1-164-161-11 1-137-613-11	ELECT 10MF CERAMIC CHIP 0.0022MF (KV-28WS3A/28WS3B/28WS FILM 0.0018MF	20% 50V 10% 50V 3D/28WS3E/28WS3K) 2% 100V
	< CRI	STAL >		(20)	1-131-413-11	(KV-28WS3A/28WS3B/28WS	
X3201	1-579-125-11	VIBRATOR, CERAMIC		C208 C209	1-107-823-11 1-107-823-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF	10% 16V 10% 16V
*****		A BOARD, COMPLETE (KV		C210 C211 C212	1-107-823-11 1-107-823-11 1-107-823-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF	10% 16V 10% 16V 10% 16V
		A BOARD, COMPLETE (KV		C213	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
		A BOARD, COMPLETE (KV		C214 C215	1-126-967-11 1-126-967-11	ELECT 47MF ELECT 47MF	20% 50V 20% 50V
	*A-1632-340-A	A BOARD, COMPLETE (KV	7-28WS3K)	C218 C219	1-163-809-11 1-163-809-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF	10% 25V 10% 25V
	*A-1632-336-A	A BOARD, COMPLETE (KV	r-28WS3U)	C220 C221	1-124-925-11 1-124-925-11	ELECT 2.2MF ELECT 2.2MF	20% 50V 20% 50V
	4-202-373-01	SPACER, INSULATING SPRING, IC SCREW (M3X10), P, SW	(+)	C222 C223 C224	1-107-823-11 1-107-823-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF	10% 16V 10% 16V 10% 16V
	< CAT	PACITOR >		C225 C226	1-163-011-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.0015MF	10% 16V 10% 50V
C001 C002 C004	1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	5% 50V 5% 50V 25V	C227 C228 C229	1-163-011-11 1-124-925-11 1-124-925-11		10% 50V 20% 50V 20% 50V
C007 C008	1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 50∀ 5% 50∀	C230	1-136-177-00	FILM 1MF (KV-28WS3A/28WS3B/28WS)	5% 50V 3D/28WS3E/28WS3K)
C009		CERAMIC CHIP 100PF	5% 50 <b>∀</b>	C231	1-136-177-00	FILM 1MF (KV-28WS3A/28WS3B/28WS3	5% 50V
C010 C012 C014	1-163-117-00 1-163-117-00	CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF	5% 50V 5% 50V 5% 50V	C232	1-164-182-11	CERAMIC CHIP 0.0033MF (KV-28WS3A/28WS3B/28WS	10% 50V
C016	1-163-141-00		<b>5%</b> 50⊽	C233	1-163-007-11	CERAMIC CHIP 680PF (RV-28WS3A/28WS3B/28WS	10% 50V 3D/28Ws3B/28Ws <b>3</b> K)
C017 C018	1-164-222-11 1-124-925-11	CERAMIC CHIP 0.22MF ELECT 2.2MF	25V 20% 50V	C234 C235	1-126-964-11 1-126-964-11	ELECT 10MF	20% 50V 20% 50V
C019 C020	1-126-965-11 1-163-117-00	ELECT 22MF CERAMIC CHIP 100PF	20% 50V 5% 50V	C236	1-126-933-11		20% 16V
C022	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C237	1-104-665-11	ELECT 100MF	20% 25V

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	REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPT	ION		REMARK
	C238 C239	1-136-165-00 1-136-165-00	FILM	0.1MF 0.1MF	5% 5%	50V 50V	C582	1-163-109-00	CERAMIC CHI	P 47 <b>PF</b>	5%	50V
	C240 C242	1-104-665-11 1-164-004-11		100MF	20% 10%	257 257	C585	1-126-967-11		47 <b>HF</b>	20%	167
				d - may	70.0	437	C586 C587	1-164-232-11 1-164-232-11		P 0.01ME P 0.01ME	10% 10%	50V 50V
	C243 C248	1-126-967-11 1-163-185-00		47MF	20% 5%	16V 50V	C588	1-164-232-11	CERAMIC CHIL	0.01MF	10%	50 <b>7</b>
			(KV-28WS3A/2	BWS3B/28WS3D	)/28WS3E	30V 3/28WS3K)	C589	1-164-232-11	CERAMIC CHIE	? 0.01MF	10%	50 <b>v</b>
	C251 C252	1-136-165-00 1-136-165-00		0.1MF 0.1MF	5% 5%	50∀ 50∀	C590	1-164-232-11		0.01MF	10%	507
				U. LPIE	25	DUY	C591 C592	1-164-232-11 1-164-232-11		0.01MF	10% 10%	50V 50V
	C253 C256	1-126-967-11 1-126-967-11		47MF 47MF	20%	16V	C593	1-164-232-11	CERAMIC CHIE	0.01MF	10%	50V
	C258	1-126-934-11	ELECT	220MF	20%	16V 16V	C594	1-126-967-11	BLECT	47MP	20%	50V
	C259 C260	1-107-714-11 1-163-019-00	ELECT CERAMIC CHIP	10MF	20% -		C681	1-104-664-11		47MF	20%	25V
			CBARRIC CHIP	0.0000ML	10%	5 <b>0</b> V	C682	1-126-967-11 1-104-664-11		47MP 47MF	20% 20%	16V 25V
	C261 C262	1-163-019-00 1-126-967-11	CERAMIC CHIP		10%	50V	C684	1-104-664-11		47MF	20%	25V
	C263	1-126-967-11	ELECT ELECT	47MF 47MF	20% 20%	16V 16V	C685	1-126-967-11	ELECT	47MF	20%	16V
	C264	1-136-165-00	FILM	0.1MF	5%	50V	C686	1-126-967-11	ELECT	47MF	20%	16V
	C265	1-136-165-00	FILM	0.1MF	5%	50V	C687	1-126-967-11	RLECT	47MF	20%	167
	C265	1-163-009-11	CERAMIC CHIP	0.00100	10%	50 <b>v</b>	C688	1-126-967-11 1-164-232-11	CERAMIC CHIP	47MF	20%	16V
	C267 C268	1-163-009-11	CERAMIC CHIF		10%	50V	C690	1-126-967-11	ELECT	47MF	10% 20%	50V 16V
	2269	1-136-165-00 1-136-165-00	FILM FILM	0.1MF 0.1MF	5% 5%	50V 50V	C691	7 176 069 44	77.70	45		
(	2270	1-126-953-11	RLECT	2200MF	20%	- * -	C692	1-126-967-11 1-126-967-11		47MF 47MF	20% 20%	16V 16V
6	271	1-126-953-11	ELECT	2200MF	20%	254	C693	1-126-967-11	ELECT	47MF	20%	167
0	2272	1-126-953-11	ELECT	2200MF	20%	35V 35V	C1007 C1008	1-163-038-91 1-126-967-11	CERAMIC CHIP	0.1MF 47MF	20%	25V
	273 274	1-126-953-11 1-136-165-00	FILM	2200MF	20%	35V					20%	16V
	275	1-136-165-00	FILM	0.1MF 0.1MF	5% 5%	50V 50V	<u> </u>	< C11 < KV-	01 - C1132 FI: 28WS3B/28WS3E,	TTED ON > /28WS3U >		
-	:280 :281	1-126-967-11 1-126-940-11	ELECT	47MF	20%	16V	C1101	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
	283	1-126-940-11	CERAMIC CHIP	330MF 0.22MF	20% 10%	16V 16V	C1102 C1103	1-163-093-00 1-164-004-11	CERAMIC CHIP	10PF	5%	50V
	284	1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V	C1104	1-126-964-11	CERAMIC CRIP	10NF	10% 20%	25⊽ 50∨
·	285	1-164-489-91	CERAMIC CHIP	0.22MF	10%	16V	C1105	1-126-964-11	ELECT	10MF	20%	50 <b>V</b>
	351 352	1-126-964-11	ELECT	10MF	20%	50 <b>v</b>	C1106	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	355	1-163-038-91 1-164-004-11	CERAMIC CHIP		10%	25V 25V	C1107 C1108	1-126-967-11 1-126-964-11		47MP	20%	16V
	356	1-164-004-11	CERAMIC CHIP	0.100	10%	25V	C1110	1-163-809-11	ELECT CERAMIC CHIP	10MF 0.047MP	20% 10%	50♥ 25♥
	357	1-164-004-11	CERAMIC CHIP	0.1MP	10%	25V	C1I11	1-164-489-11	CERAMIC CHIP		10%	16V
	358 359	1-164-004-11 1-164-004-11			10%	25V	C1112	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
-	277	1-104-004-11	CERAMIC CHIP	U. DAF	10%	25V	C1113 C1114	1-163-137-00 1-126-967-11	CERAMIC CHIP		5%	50V
C:	360	1-164-326-91	CERANIC CHIP			16V	C1115	1-164-161-11	CERAMIC CHIP	47MF 0.0022MF	20% 10%	16V 50V
			(KV-28WS3A/28 28WS3U)		28WS3K/	28WS3R/	C1116	1-126-967-11		47MP	20%	16V
		1-164-004-11	CERAMIC CHIP	0.1MF		250	C1117	1-164-004-11	CERANIC CHIP	0.1MF	10%	25V
					(KV-	28WS3B)	C1118 C1119	1-126-967-11 1-126-967-11		47MF	20%	167
	361 362	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C1120	1-163-137-00	CERAMIC CHIP	47MF 680PP	20% 5%	16V 50V
	364	1-163-038-91 1-126-964-11				25V 50V	C1121	1-164-299-11	CERAMIC CHIP	0.22MF		25V
	365	1-124-903-11	ELECT	1MF		50 <b>V</b>	C1122	1-126-967-11	RLECT	47мғ	20%	16V
C3	366	1-164-005-11	CERAMIC CHIP	0.47MP		25₹	C1123	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	67	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C1124 C1125	1-164-004-11 1-107-823-11	CERAMIC CHIP (	0.1MF	10%	25V
	68 169	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C1126	1-163-117-00	CERAMIC CHIP	100PP	10% 5%	16V 50V
C3	70	1-124-903-11 1-164-005-11	CERAMIC CRIP	IMP 3.47NP		50V 25V	C1127					
	172	1-126-964-11				50V	C1128	1-163-117-00 1-163-037-11	CERAMIC CHIP :	LVQ2# 1.022MP	5% 10%	50V 25V
C3	73	1-126-964-11	RI.RCT C	LOMF	20%	Emr	C1129	1-162-568-11	CERAMIC CHIP (	).33MP	7.	25V
C3	74	1-164-004-11	CERAMIC CHIP			50V 25V	C1130 C1131		ELECT 1 CERANIC CHIP (	LMP 1 1MP	20% 10%	50V 25V
		1-126-964-11 1-124-902-00	ELECT	LOMP :	20%	50V					10.3	457
		T-T04-304-AA	millér.	.47MF :	20% !	50V	C1132	1-164-004-11	CERAMIC CHIP O	).1MF	10%	25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	I		REMARK
		137 - C1157 FITTED ON >		C1560	- 1-124-902-00	BLECT	0.47MF	20%	50V
		-28WS3B/28WS3E/28WS3U >		C1561	1-104-760-11	CERANIC CHIP	0.047MF	10%	50V
C1133	1-126-967-11		20% 16V 20% 50V	C1562 C1563	1-163-117-91 1-163-141-00	CERANIC CHIP	100P	5% 5%	50V 50V
C1134 C1135	1-126-964-11 1-163-125-00	CERAMIC CHIP 220PF	5% 50Y	C1564	1-164-336-11	CERANIC CHIP	0.33MF		25V
C1136 C1137	1-164-004-11 1-163-095-00	•	10% 25V 5% 50V	C1567	1-124-903-11		1MF	20%	50V
C1139	1-154-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1568 C1569	1-164-344-11 1-163-003-11	CERAMIC CHIP	330PF	10% 10%	25V 50V
C1142 C1143	1-164-299-11 1-163-009-11		10% 25V 10% 50V	C1570 C1571	1-164-232-11 1-164-004-11	CERAMIC CHIP		10% 10%	50V 25V
C1147 C1148	1-126-967-11 1-164-161-11	ELECT 47MF	20% 16V 10% 50V	C1585	1-124-903-11		1MF	20%	50 <b>V</b>
				C1586	1-124-902-00		0.47MF 47MF	20% 20%	50∀ 50∀
C1150 C1151	1-163-038-91 1-163-038-91	CERAMIC CHIP 0.1MF	25V 25V	C1587 C1588	1-126-967-11	CERAMIC CHIP	0.01MF	10%	50 <b>V</b>
C1152 C1157	1-126-967-11 1-163-009-11		20% 16V 10% 50V	C1589 C1590	1-162-587-11	CERAMIC CHIP		10%	25V 16V
C1501	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C1591	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C1502 C1504	1-124-903-11 1-124-122-11		20% 50V 20% 50V	C1593 C2001	1-126-964-11 1-163-235-11	ELECT CERAMIC CHIP	10MF 22PF	20% 5%	50V 50V
C1505	1-137-371-11	FILM 0.015MF ;	5% _ 50V	C2002	1-163-235-11	CERAMIC CHIP	22PF	5%	50V 25V
C1506	1-164-161-11		10% 50V	C2003					
C1507 C1508	1-105-303-00 1-137-423-11		10% 100V 10% 100V	C2004 C2005	1-164-222-11 1-163-038-91	CERAMIC CHIP	0.1MP		25V 25V
C1509 C1510	1-125-964-11 1-130-789-00		20% 50V 5% 100V	C2007 C2008	1-126-965-11 1-164-222-11	ELECT CERAMIC CHIP	22MF 0.22MF	20%	50V 25V
C1511	1-126-941-11		20% 25♥	C2010	1-163-038-91	CERAMIC CHIP	0.1MP		25V
C1512 C1513	1-164-232-11 1-164-232-11		10% 50♥ 10% 50♥	C2011 C2012	1-107-823-11 1-164-004-11	CERAMIC CHIP		10% 10%	16V 25V
C1514	1-126-941-11	ELECT 470MF	20% 25⊽	C2013	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V 50V
C1518 C1520	1-124-927-11 1-126-964-11		20% 50V 20% 50V	C2014 C2016	1-163-141-00 1-164-222-11	CERAMIC CHIP CERAMIC CHIP		5%	25V
C1521	1-107-698-11		20% 25V	C2017	1-164-222-11	CERAMIC CHIP			25V
C1522 C1523	1-126-967-11 1-104-664-11		20% 50V 20% 25V	C2019 C2020	1-126-965-11 1-164-346-11	CERAMIC CHIP		20%	50V 16V
C1531 C1532	1-110-501-11 1-126-964-11		10% 16V 20% 50V	C2024 C2025	1-163-117-00 1-163-117-00	CERAMIC CHIP		5% 5%	50V 50V
C1533	1-163-103-00		5% 50V	C2027	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C1534 C1535	1-164-489-11 1-110-501-11	CERAMIC CHIP 0.22MF	10% 16V 10% 16V	C2031 C2032	1-163-031-11 1-126-933-11	CERAMIC CHIP	0.01MF 100MF	20%	50V 16V
C1537	1-163-038-91	CERAMIC CHIP 0.1MP	25V	C2701	1-126-964-11	BLECT	10XF	20%	50V
C1539		CERAMIC CHIP 0.1MF	10% 25V	C2702	1-126-967-11		47MF	20%	167
C1540 C1541	1-126-967-11 1-163-141-00	CERAMIC CHIP 0.001MF .	20% 50V 5% 50V	C2706		CERAMIC CHIP	330PF	10%	50V
C1542 C1543		CERAMIC CHIP 0.01MP	10% 50V 10% 50V		< 001	NECTOR >			
C1544			10% 50∀	CN0001 CN0002	*1-564-520-11 *1-568-878-51	PLUG, CONNECTO PIN, CONNECTO			
C1545 .		CERAMIC CHIP 0.47MF	10% 16V	CN0101	1-695-297-11	CONNECTOR, BO	ARD TO BOAR		
C1546 • C1547	1-164-695-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0022MF	25V 5% 50V	CN0102 CN0103		CONNECTOR, BO			
C1548 C1549		CERAMIC CHIP 0.0047MF	10% - 50V 10% - 50V	CN0104		CONNECTOR, BO			
C1550	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN0105 CN0106		CONNECTOR, BO CONNECTOR, BO			
C1551 C1552	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V 10% 50V	CN0107 CN0108	1-695-297-11	CONNECTOR, BO	ARD TO BOAR	D 20P	
C1553	1-163-038-91	CERAMIC CHIP 0.1MF	25V					- AVE	
C1554		CERANIC CHIP 0.1MF	25V	CN0109 CN0111	*1-568-882-51	PIN, CONNECTO PIN, CONNECTO	R 7P		
C1556	. 1-126-967-11 1-124-122-11		20% - 50V 20% - 50V	CN0113 CN0114		PIN, CONNECTO PLUG, CONNECT			
C1558 C1559	1-163-141-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0022MF	5% 50V 10% 50V	CN0115		FIN, COMMECTO			
	7-104-10T-TF	COMMITTER OF ANGRE	70.0 501						

The components identified by shading and marked it are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque i sont critiques pour la securite.

Ne les remplacer que par une piece portant le numero specifie.



	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>	REMARK
	CN0151 CN0152	1-568-882-51 *1-568-882-51	PIN, CONNECTOR 7P PIN, CONNECTOR 7P			< IC	>		
			(KV-28WS3A/28WS3B/2 PLUG, COMMECTOR 7P	8NS3D/28NS3E/28NS3U) (KV-28NS3K)	IC001 IC002	8-759-353-82	IC SDA30C164- IC TMS27PC028	-15FML	
		< RF	DISTRIBUTOR >		IC072 IC201 IC202	8-759-348-87	IC ST24C16CB1 IC TDA6812-2) IC TDA2822N	i Ge <b>r</b> g	
	CP101	1-251-372-11	DISTRIBUTOR, RF			i			
		< DIC	IDE >		IC251 IC261	8-759-190-89 8-759-190-89	IC TDA7265		
÷.	D001 D003 D068 D069	8-719-914-42 8-719-914-44	DIODE MA3039H-TX DIODE DA204K DIODE DAP202K DIODE DAP202K		IC351 IC352 IC572 IC681	8-759-085-51 8-752-070-54	IC TDA8443B IC NJM2284M IC CKA1839Q-T	6	
:	D071	8-719-109-89	DIODE RD5.6ESB2		IC682 IC683	8-759-518-68 8-759-513-71 8-759-908-15	IC PQ05RF21 IC TL431CLP		
	D073 D075 D077	8-719-914-43 8-719-914-43	DIODE RD5.6ESE2 DIODE DAN202K DIODE DAN202K		IC684 IC685	8-759-195-63 8-759-510-52	IC PQ09RE11 IC TEA7605		
	D078 D079	8-719-109-89 8-719-109-89	DIODE RD5.6ESB2 DIODE RD5.6ESB2		IC686	8-759-513-71	(KV-28WS3A/28	WS3D/28WS3E/28WS3)	(/28WS3U)
	D101 D201	8-719-982-27 8-719-914-42	DIODE MTZJ-33C DIODE DA204K	8WS3D/28WS3E/28WS3K)	IC1001 IC1101 IC1501	8-752-869-17 8-759-251-58 8-759-192-71	IC CXP85112B- IC SAA7283GP IC STV9379	6220-TL (KV-28WS3B/28WS3E)	(28WS3U)
	D251 D252	8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77	ongourachood zongon)	IC1531 IC2001	8-752-068-39 8-759-248-91	IC CXA1840S IC SDA9086-5		
I	0253 0254	8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77		IC2002 IC2003 IC2701	8-759-337-48 8-759-188-60 8-759-603-37	IC SDA5273P-C IC MB81C4256A IC MS216P	26-GEG -70PSZG	
I	0255 0256 0257	8-719-991-33	DIODE DAN202K DIODE 1SS133T-77 DIODE 1SS133T-77			< IF	BLOCK >		
I I	0258 0259 0260 0261	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77		IFB101	1-467-573-13 1-467-873-12	IF BLOCK (EV- IF BLOCK (EV- IF BLOCK (EV-	28WS3K)	3E)
I	262	8-719-991-33	DIODE 1SS133T-77			< COI	L >		
D D	0263 0265 0351 0581 010 <b>0</b> 1	8-719-914-42 8-719-991-33 8-719-914-43	DIODE DAN202K DIODE DA204K DIODE 1SS133T-77 DIODE DAN202K DIODE DAP202K		L001 L101 L102 L201 L1002	1-408-421-00 1-408-413-00 1-408-413-00 1-407-500-00 1-408-397-00	INDUCTOR INDUCTOR INDUCTOR	1000H 220H 220H 4.7MMH 10H	
	1002 1003	8-719-914-43	DIODE DAN202K DIODE DAN202K	PRIVEL 13 AMERICAN	L1101	1-412-004-31	INDUCTOR CHIP	6.8UH (KV-28WS3B/28WS3E	/20Me2ml
	1101 1102	8-719-914-43 8-719-820-71	DIODE DAN202K (KV-28 DIODE 1SV214 (KV-28W	WS3E/28WS3E/28WS3U)	L1102	1-408-419-00	INDUCTOR	68UH	
D	1503 1504	8-719-908-03	DIODE GP08D DIODE RD15ESB2	son a cristal a dudday	L1103	1-408-419-00	INDUCTOR	(KV-28WS3E/26WS3E 68UH (KV-28WS3E/26WS3E	
D D D	1505 1510 1511 1530	8-719-914-43 8-719-914-42 8-719-982-03	DIODE DAN202K		L1501 L1531 L2001 L2002	1-412-524-11 1-412-537-31 1-410-674-31 1-410-397-21	INDUCTOR	8.2UH 100UH 82UH NDUCTOR 1.1UH	
	1533 1534	8-719-400-75 8-719-914-43	DIODE MA3091 DIODE DAN202K			< IC 1	LINK >		
D: D:	153 <i>6</i> 1539	8-719-105-82 8-719-914-42	DIODE RD5.1M-B2 DIODE DA204K		PS681 🚴	1-532-637-91	LINK, IC (ICP-	N25) 1.0A	
	1542		DIODE MTZJ-T-77-9.1A	•		< TRAN	SISTOR >		
D: D: D:	1543 1544 1545 2001 2004	8-719-914-42 8-719-914-42 8-719-914-42 8-719-036-58 8-719-914-43	DIODE DA204K DIODE DA204K DIODE MA3030-H(TX)		Q002 Q005 Q006 Q007 Q008	8-729-027-59 8-729-920-74 8-729-027-59	TRANSISTOR 2SA TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR DTC TRANSISTOR 2SC	144EKA-T146 2412K-QR 144EKA-T146	
D	3701	8-719-914-44	DIODE DAP202K		Q102		TRANSISTOR DTC		



REF.NO.	PART NO.	DESCRIPTION REM	ARK REF.NO	. PART NO.	DESCRIPTION	REMARK
0103	0 000 000 50					
Q103 0106	8-729-027-52 8-729-821-00	TRANSISTOR DTC124EKA-T146 TRANSISTOR 2SA1207	JR202	1-216-295-91		0 5% 1/10W (KV-28WS3A/28WS3D/28WS3K)
0107		TRANSISTOR 2SA1207 TRANSISTOR 2SC2551-0 TRANSISTOR DTC144ERA-T146	JR279	1-216-295-91		0 5% 1/10W
		TRANSISTOR DIC144EKA-T146	JR280			0 5% 1/10W
			JR1013	1-216-295-91		0 5% 1/10W
Q203	8-729-920-74	TRANSISTOR DTC144ERA-T146  TRANSISTOR 2SC2412K-QR (KV-28WS3A/28WS3B/28WS3D/28WS3E/28/ TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR  TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC1162-G TRANSISTOR 2SC162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC162-G TRANSISTOR 2SC2412K-QR (KV-28WS3B/28WS3E/28UTRANSISTOR 2SC2412K-QR				
Q252	8_729_920_74	(KY-28MS3A/26WS3B/26WS3D/28WS3E/28/	WS5K) JK15U1	1-216-295-91		0 5% 1/10W 0 5% 1/10W
Q253	8-729-216-22	TRANSISTOR 25024125-QA	082002	1-210-253-51	METAL GLAZE (	0 5% 1/10W
Q254	8-729-920-74	TRANSISTOR 2SC2412K-OR	R001	1-216-025-91	METAL GLAZE	100 5% 1/10W
-		•	R002	1-216-025-91		100 5% 1/10W
Q255	8-729-920-74	TRANSISTOR 2SC2412K-QR	R003	1-216-057-00		2.2K 5% 1/10W
0255	8-729-920-74	TRANSISTOR 2SC2412K-QR	R004	1-216-049-91		1K 5% 1/10W
Q257 <sup>1</sup> Q258	8-729-920-74	TRANSISTUR ZSCZ41ZK-QR	K006	1-216-049-91	METAL GLAZE	1K 5% 1/10W
Q281	8-729-920-74	TRANSISTOR 2502412K-QK	2007	1-216-073-00	METAL CLAVE 1	10K 5% - 1/10W
	5 745 540 74	THE PARTY AND STATE OF	R008	1-216-049-91		1K 5% 1/10W
Q282	8-729-920-74	TRANSISTOR 2SC2412K-QR	R009	1-216-057-00	METAL GLAZE	2.2K 5% - 1/10W
Q351	8-729-216-22	TRANSISTOR 2SA1162-G	R010	1-216-049-91	METAL GLAZE 1	IR 5% 1/10W
Q352	8-729-216-22	TRANSISTOR 2SA1162-G	R012	1-216-049-91	METAL GLAZE	lk 5% 1/10W
Q571 Q581	8-729-920-74	TRANSISTOR 2SC2412K-QR	2002	4 444 444 44		
Oper	0-123-320-14	TRANSISTUR 25C2412R-QR	R013	1-216-049-91		IK 5% 1/10W IK 5% 1/10W
0681	8-729-032-65	FRANSISTOR 2SD2396H	R016	1-216-045-00	METAL GLAZE	580 5% 1/10W
Q1001	8-729-216-22	TRANSISTOR 2SA1162-G	R017	1-216-049-91		LK 5% 1/10W
Q1105	8-729-920-74	TRANSISTOR 25C2412K-QR	R018	1-216-041-00		170 5% 1/10W
04406		(KV-28WS3B/28WS3E/28I	WS3U)			'
Q1106	8-729-920-74					IK 5% 1/10W
		(KV-28WS3B/28WS3E/28T	WS3U) R021 R025	1-216-065-00 1-216-049-91	METAL GLAZE 4	1.7R 5% 1/10W LR 5% 1/10W
01107	8-729-920-74	TRANSISTOR 2SC2412K-OR	R028	1-216-089-91		17K 5% - 1/10W
	- 100 0-0 11	(KV-28WS3B/28WS3E/28V		1-216-049-91		LK 5% 1/10W
Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR	•			
01705		(KV-28WS3B/28WS3E/28Y		1-216-025-91	metal glaze 1	LOO 5% : 1/10W
Q1505	8-729-931-45	TRANSISTOR IRP614	R031	1-216-041-00		170 5% - 1/10W
Q1506	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	R032 R033	1-216-073-00 1-216-049-91		10K 5% 1/10W LK 5% 1/10W
Q1507	8-729-216-22	TRANSISTOR 2SA1162-G	R034	1-216-057-00		IK 5% 1/10W 2.2K 5% 1/10W
Q1508	8-729-027-59	TRANSISTOR DTC144ERA-T146 TRANSISTOR 2SA1162-G TRANSISTOR DTC144ERA-T146			casta dame	27 27 2011
Q1510	8-729-216-22	TRANSISTOR 2SA1162-G	R035	1-216-057-00	METAL GLAZE 2	2.2K 5% ' 1/10W
Q1511	8-729-027-59	TRANSISTOR DTC144EKA-T146	R036	1-216-081-00		22R 5% [1/10W
01512				1-216-073-00	NETAL GLAZE 1	.0K 5% 1/10W
Q1531	8-729-216-22	TRANSISTOR DTC144EKA-T146 TRANSISTOR 2SA1162-G	R047	1-216-073-00 1-216-101-00		.OR 5% 1/10W .SOK 5% 1/10W
Q1532	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412R-QR	1021	7 210 101 00	WRITED OTHERS T	.30% 3% 1/10W
Q1533	8-729-216-22	TRANSISTOR 2SA1162-G	R048	1-216-065-00	METAL GLAZE 4	1.7K 5% 1/10W
Q1544	8-729-920-74	TRANSISTOR 2SC2412K-QR	R049	1-216-049-91		K 5% 1/10W
01545	0 750 070 74	STREET CONTRACTOR OF STREET	R050	1-216-073-00		OK 5% - 1/10W
01547	8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	R051 R052	1-216-295-91 1-216-295-91		
Q1548		TRANSISTOR 2SA1162-G	AU32	1-210-233-31	METAL GLAZE 0	5% 1/10W
Q1549		TRANSISTOR 2SC2412K-QR	R054	1-216-041-00	METAL GLAZE 4	70 5% 1/10W
Q2001	8-729-920-74		R062	1-216-049-91	METAL GLAZE 1	K 5% 1/10W
00000			R067	1-216-043-91		60 5% 1/10W
Q2002 Q2004		TRANSISTOR 2SC2412KQR TRANSISTOR DTC124EKA-T146	R068	1-216-043-91		660 5% 1/1 <b>0W</b>
Q2005 ·		TRANSISTOR 2SC2412K-OR	R069	1-216-037-00	RETAL GLAZE 3	30 5% 1/1 <b>0W</b>
Q2006		TRANSISTOR DTC144EKA-T146	R072	1-216-033-00	METAL GLAZE 2	20 5% · 1/10W
Q2008 °	8-729-027-52	TRANSISTOR DTC124ERA-T146	R073	1-216-033-00		20 5% · 1/10W
00764			R074	1-216-049-91	METAL GLAZE 1	K 5% - 1/10W
Q2701	8-729-920-74	TRANSISTOR 2SC2412K-QR	R077	1-216-059-00		.7K 5% / 1/10W
	< RES	ISTOR >	R083	1-216-049-91		E 5% 1/10W
JR001	1_016.006-01	MEGAT OT LOD A CO. 1310m	R085	1-216-049-91		N 5% 1/10W
JR002	1-216-295-91		R101 R102	1-216-025-91 1-216-025-91	METAL GLAZE 1	00 5% 1/10W
JR101	1-216-295-91		R102	1-216-073-00		00 5% 1/10W OK 5% 1/10W
JR102	1-216-295-91		R108	1-216-081-00		2K 5% 1/10W
JR201	1-216-295-91	METAL GLAZE 0 5% 1/10W				
		(KV-28WS3A/28WS3D/28Y		1-216-113-00		70K 5% 1/10W
			R110	1-216-079-00		8K 5% 1/10W
			R111	1-216-089-91	ESTAL GLAZE 4	7K 5% 1/10W

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											A
REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPT	пом		REMA
R115 R116	1-216-073-00 1-215-901-00			% 1/10 % 20	)W	R275 R276	1-216-057-00 1-216-073-00	METAL GLAZE	10K	5% 5%	1/10W 1/10W
R121 R124	1-216-081-00 1-216-061-00			% 1/10 % 1/10		R277 R278		METAL GLAZE		5%	1/10W
R125	1-216-065-00			% 1/10		R279	1-216-103-91	METAL GLAZE METAL GLAZE	180K 180K		1/10W 1/10W
R127	1-216-295-91	METAL GLAZE	5	% 1/10	)₩	R280	1-216-049-91	METAL GLAZE	1802	5%	1/10W 1/10W
R130	1-216-295-91	METAL GLAZE	5	% 1/10	W	R282	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R131	1-216-295-91	METAL GLAZE	1 5	% 1/10	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	R284	1-216-041-00	METAL GLAZE	470	5%	1/10W
R201	1-216-655-11		_	.50% 1/10		R285	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R202	1-216-657-11	METAL CHIP 1	.8K 0	.50% 1/10	W	R286	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R203 R204	1-216-655-11			.50% 1/10		R287	1-216-041-00	METAL GLAZE	470	5%	1/10W
KZU4	1-216-657-11	METAL CHIP 1	8K. U	.50% 1/10	W	R288 R289		METAL GLAZE		5%	1/10W
R205	1-216-067-00	METAL GLAZE 5	.6K 5	% 1/10	ANT .	8403	1-216-357-00	METAL OXIDE	4.7	5%	1W P
		(KV-28WS3A/28WS	3B/28W	S3D/28WS3		R290	1-216-357-00	METAL OXIDE	4.7	5%	1W F
R206 R207	1-216-081-00		2K 59			R291	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R208	1-216-057-00 1-216-081-00		.2K 5			R292 R293		METAL GLAZE	IK	5%	1/10W
		202100 2	Day 3	. 1110	п	R294	1-216-033-00 1-216-033-00		220 220	5% 5%	1/10W 1/10W
R209	1-216-057-00		.2K 59						260	3.6	1/1011
R210 R211	1-247-734-11 1-247-734-11		9 59			R295	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R212	1-216-025-91		.9 59 .00 59			R296 R297		METAL GLAZE METAL GLAZE	10K 3.9K	5%	1/10W
R213	1-216-025-91		00 59			R298	1-216-063-91		3.9K	5% 5%	1/10W 1/10W
no1 4	4 046 005 04					R299	1-216-053-00		1.5K	5%	1/10W
R214	1-216-025-91	METAL GLAZE 1 (KV-28WS3A/28WS	00 59 3B/28W	% 1/10 can/29wca	W / 20 M 6 2 F \	R351	1 215 022 00	100011 Arann	000		4 144
R218	1-249-389-11	CARBON 4	.7 59			R352	1-216-033-00 1-216-033-00		220 220	5% 5%	1/10W 1/10W
R219	1-249-389-11	CARBON 4	.7 59	8 1/4W		R353	1-216-033-00	METAL GLAZE	220	5%	1/10W
R221	1-216-091-00	METAL GLAZE 5 (KV-28WS3A/28WS	6K 5% 3B/28W9		n R/28WS3K)	R354 R355	1-216-065-00 1-216-055-00		4.7K 1.8K	5% 5%	1/10W 1/10W
R222	1-249-389-11	CARBON 4	.7 59	1/4W	P	R356	1-216-055-00	WEERS OF SER	1 0-	PO.	4 (4.5
R241	1-216-065-00	METAL GLAZE 4	.7K 59	\$ 1/10°	N	R357	1-216-055-00		1.8K 1.8K		1/1)W 1/1)W
2040	1 01 5 072 00	(KV-28WS3A/28WS				R358	1-216-065-00	METAL GLAZE	4.7K		1/1 <del> W</del>
R242 R243	1-216-073-00 1-216-073-00		OK 5% OK 5%			R359	1-216-295-91	METAL GLAZE	0	5%	1/1(W
	1 210 010 00	WATER GENER T	W. J.	a 1/10	•				(KV-2	BWS3E	/28WSIRC/28WS
224 <b>4</b> 2246	1-216-073-00 1-216-097-91	METAL GLAZE 1	OK 5% OOK 5%	1/10	W	R360	1-216-295-91	METAL GLAZE	0	5%	1/10W (IV-28WS)
25.47	4 545 405 44	(KV-28WS3A/28WS	3B/28W8	3D/28W531	8/2 <b>0WS</b> 3K)	R361	1-216-295-91	METAL GLAZE	0	5%	1/1W
1247 1248	1-216-097-91 1-216-055-00		00K 5% .8K 5%			8360	4 045 005 04	(KV-28WS3A/2	8WS3D/2		/28WSJK /28WS
249	1-216-089-91		7K 5%	_		R362	1-210-295-91	METAL GLAZE	0	5%	1/10W (IV-28WB)
250	1-216-065-91	METAL GLAZE 4	.7K 5%			R363	1-216-295-91	WETAL CLASS	0	5%	1/1W
251	1-216-049-91			-,				(KV-28WS3A/2	8WS3D/28	SWS3E,	/28WSJK /28WS
1253 1257	1-216-049-91 1-216-041-00	METAL GLAZE 11	K 5% 70 5%			R364	1-216-295-91	metal glaze	0	5%	1/10V
,	1-210-041-00	VETUD GINVE A	10 34	1/10	•	R365	1-216-295-91	(KV-28WS3A/2	8W\$3D/28 0	JWS3E, 5%	
258	1-216-075-00		2K 5%				1 440 475.71	(KV-28WS3A/2		og WS3R/	1/10V /28WS3K /28WS3
259 260	1-216-075-00		2K 5%							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
261	1-216-041-00 1-216-065-91		70 5% .7K 5%			R366	1-216-295-91	METAL GLAZE	0	5%	1/10V
262	1-216-357-00	METAL OXIDE 4			F	R367	1-216-295-91	(KV-28WS3A/2 METAL GLAZE	8WS3D/28 0	NS3E/ 5%	/28WS3R /28WS3 1/10V
263	1_016 150 00	WHEN ATTER	n no	4	_				*		(BV -28WS)
26 <b>4</b>	1-216-357-00 1-216-075-00		.7 5% 2K 5%		F t	R368	1-216-295-91	METAL GLAZE	0	5%	1/10V
265	1-216-079-91	METAL GLAZE 10	K 5%								(By -28WS3
266	1-216-065-00	METAL GLAZE 4	.7K 5%	1/100	ī	R369	1-216-033-00	METAL GLAZE	220	5%	1/107
267	1-216-073-00	METAL GLAZE 10	DK 5%	1/109	ı	R371	1-216-061-00	METAL GLAZE	3.3K		1/107
268	1-216-073-00	KETAL GLAZE 16	DK 5%	1/10%	į	R372 R373	1-216-043-91 1-216-097-91	METAL GLAZE		5% 5%	1/10v 1/10v
269	1-216-039-00	METAL GLAZE 39	0 5%	1/10W	1	R375	1-216-081-00	METAL GLAZE		วซ 5%	1/10/ 1/10/
270 271	1-216-057-00 1-216-057-00		2K 5%			222					
272	1-216-037-00	METAL GLAZE 2.	.2K 5% )0 5%			R376 R377	1-216-081-00 1-216-033-00			5%	1/107
				-,-,-		R378	1-216-033-00	METAL GLAZE		5% 5%	1/10g 1/10g
	1_216_072_00	METAL GLAZE 10	)R 5%	1/20W	ſ	R379	1-216-025-91	MPTAL CLASS			
273 27 <b>4</b>	1-216-057-00		2K 5%			R380	1-216-049-91	MATUR GRAVER	TOA	5%	1/10



REF.NO.	PART NO.	DESCRIPTION	<u>!</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R384 R385	1-216-022-00 1-216-022-00			5% 5%	1/10W 1/10W	R1125 R1132	1-216-097-91 1-216-097-91	METAL GLAZE METAL GLAZE	100K 100K	5% 5%	1/10W 1/10W
R386	1-216-022-00		75	5%	1/10W	R1133	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R575	1-216-033-00			5%	1/10W	R1144	1-216-049-91		1K	5%	1/10W
R576	1-216-033-00	METAL GLAZE	220	5%	1/10W	R1145	1-216-001-00	NETAL GLAZE	10	5%	1/10W
R578	1-216-049-91			5%	1/10W	R1146	1-216-049-91	METAL GLAZE	18	5%	1/10W
R579 R580	1-216-049-91 1-216-049-91			5% 5%	1/10W 1/10W	R1147 R1148	1-216-039-00 1-216-049-91	METAL GLAZE METAL GLAZE	390 1K	5% 5%	1/10W 1/10W
R581	1-216-685-11				1/10W	R1149	1-216-001-00		10	5%	1/10W
R582	1-216-047-91	METAL GLAZE	820	5%	1/10W	R1150	1-216-039-00	METAL GLAZE	390	5%	1/10W
R593	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1151	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R584	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1501	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R587 R588	1-216-017-91			5% 5%	1/10W 1/10W	R1502 R1503	1-216-659-11 1-216-049-91		2.2K	0.50% 5%	1/10W 1/10W
R681	1-216-059-00 1-216-471-11			5%	3W F	R1504	1-216-025-91		100	ეზ 5%	1/10W
					d can	R1505	1-216-025-91		100	5%	1/10W
R682 R683	1-249-407-11 1-216-041-00			5% 5%	1/4W 1/10W	R1506	1-216-025-91	METAL GLAZE	100	5%	1/10W
R684	1-249-419-11		1.5X		1/4W	R1509	1-216-065-00		4.7K	5%	1/10W
R685	1-247-807-31			5%	1/4W	R1512	1-216-079-00		18K	5%	1/10W
R1001	1-216-049-91	METAL GLAZE	18	5%	1/10W	R1513 R1514	1-216-667-11 1-216-049-91		4.7K	0.50% 5%	1/10W 1/10W
R1003	1-216-295-91			5%	1/10W						
BIOGE	1 216 040 01				28W\$3K/28W83U)	R1515 R1516	1-215-455-00 1-249-385-11		27K	1% ; 5%	1/4W
R1005 R1006	1-216-049-91			5% 5%	1/10W 1/10W	R1510	1-216-371-00		2.2 1.5	5%	1/4W F 2W F
R1007	1-216-033-00			5%	1/10W	R1519	1-216-475-11	METAL OXIDE	120	5%	3W F
R1008	1-215-025-91	METAL GLAZE	100	5%	1/10W	R1520	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R1009	1-216-025-91			5%	1/10W	R1521	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1017	1-216-033-00	METAL GLAZE	220	5%	1/10W	R1522	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1018 R1019	1-216-033-00 1-216-065-00			5% 5%	1/10W 1/10W	R1523 R1524	1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE	330K 330K	5% 5%	1/10W 1/10W
VIATA	1-216-003-00	METAL GLAZE	11.75	20	TATOM	R1526	1-216-049-91		1K	5%	1/10W
R1020	1-216-065-00			5%	1/10W	21525	1 216 010 01	10001 G1100	4 ==	ro.	4 /4 0mg
R1022 R1023	1-216-073-00 1-216-049-91			5% 5%	1/10W 1/10W	R1527 R1529	1-216-049-91 1-216-073-00		1K 19K	5% 5%	1/10W 1/10W
R1024	1-216-049-91			5%	1/10W	R1531	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1025	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1532 R1534	1-216-133-00 1-216-059-00	metal glaze metal glaze	3.3M 2.7K	5% 5%	1/10W 1/10W
R1026	1-216-049-91	METAL GLASE	1K	5%	1/10₩	ALIJA	1-210-039-00	ABIAD GLAZS	2.75	30	1/ 144
R1027		METAL GLAZE		5%	1/10W	R1539	1-216-073-00	MRTAL GLAZE	10K	5%	1/10W
R1028	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1540 R1541	1-216-045-00 1-216-037-00	METAL GLAZE METAL GLAZE	680 330	5% 5%	1/10W 1/10W
	< R11	101 - R1151 FIT	TED ON	>		R1542	1-216-182-00	METAL GLAZE	220	5%	1/8W
	< ¾4.	-28WS3B/28WS3R/	28W53D	>		R1543	1-216-033-00	metal glaze	220	5%	1/10W
R1101	1-216-025-91	METAL GLAZE	100	5%	1/10W	R1544	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1102	1-216-049-91			5%	1/10W	R1545	1-216-673-11				1/10W
R1103 R1104		METAL GLAZE METAL GLAZE		5% 5%	1/8W 1/10W	R1546 R1547	1-216-025-91 1-216-025-91		100 100	5% 5%	1/10W 1/10W
R1105	1-216-055-00			5%	1/10W	R1548	1-216-295-91		0	5%	1/100
R1106	1-216-049-91	METAL GLAZE	1K	5%	1/10W	R1549	1-216-045-91	MRTAL GLAZE	680	5%	1/10W
R1107		METAL GLAZE		5%	1/10W	R1553	1-216-025-91		100	5%	1/10W
R1108 R1109		METAL GLAZE		5%	1/10W	R1554	1-216-025-91		100	5%	1/10W
R1110		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/8W	R1558 R1561	1-216-025-91 1-216-081-00		100 22K	5% 5%	1/10W 1/10W
R1111 R1112		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1562 R1563	1-216-113-00 1-216-077-00		470K	5% 5%	1/10W 1/10W
R1113		METAL GLAZE	680K		1/10W	R1564	1-216-089-91		47K	5%	1/10W
R1114	1-216-158-00	METAL GLAZE	22	5%	1/8W	R1565	1-216-282-00	METAL GLAZE	3.3M	5%	1/8W
R1115	1-216-121-91	METAL GLAZE	114	5%	1/10W	R1568	1-216-103-91	metal glaze	180K	5%	1/10W
R1116	1-216-081-00			5%	1/10W	R1569	1-216-073-00		10K	5%	1/10W
R1117 R1118	1-216-073-00 1-216-134-00			5% 5%	1/10W 1/8W	R1570	1-216-095-00	(KV-28WS3A/28 METAL GLAZE	WS3B/2 82K	:8WS3D/ 5%	28WS3E/28P <b>JS</b> 3U) 1/10W
R1119	1-216-133-00		3.3N		1/10W	R1571		METAL GLAZE	2.7K		1/10W
R1124		METAL GLAZE		5%	1/10W						

					, a .	Α	F ( KV-28WS3A/2 KV-28WS3K/2	28WS3D/28WS3E )
REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1572	1-216-073-00	METAL GLAZE (KV-28WS3A/28W	10K 5% VS3B/28WS3D/	1/10W 28WS3E/28WS3D)	R2033 R2034	1-216-081-00 1-216-081-00		5% 1/10W 5% - 1/10W
R1573 R1574 R1575 R1576 R1577	1-216-089-91 1-216-053-00 1-216-085-00 1-216-065-00 1-216-089-91	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 1.5K 5% 33K 5% 4.7K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2035 R2036 R2037 R2038 R2039	1-216-069-00 1-216-049-91 1-216-049-91 1-216-061-00 1-216-093-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 3.3K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
R1578 R1579	1-216-085-00 1-216-057-00		33K 5% 2.2K 5%	1/10W 1/10W 29W22F/29W22TI\	R2040 R2701 R2702	1-216-125-00 1-216-081-00 1-216-081-00	METAL GLAZE 22K	5% 1/10W 5% 1/10W
R1580 R1581	1-215-867-00 1-216-065-00	METAL OXIDE	470 5% 4.7K 5%	1W F 1/10W	R2703 R2704	1-216-081-00 1-216-081-00	METAL GLAZE 22K	5% - 1/10W 5% 1/10W 5% 1/10W
R1582 R1583 R1584 R1585 R1586	1-216-089-91 1-216-081-00 1-208-822-11 1-216-073-00 1-208-806-11	METAL GLAZE METAL CHIP METAL GLAZE	10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2705 R2706 R2707 R2708 R2713	1-216-073-00 1-216-295-91 1-216-073-00	METAL GLAZE 10K METAL GLAZE 0 METAL GLAZE 10K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
R1587 R1588	1-216-677-11 1-216-295-91		12K 0.50% 0 5%	1/10W 1/10W		< TH	RMISTOR >	
R1589 R1590	1-216-295-91 1-216-093-00	METAL GLAZE	0 5% 68X 5%	1/10W 1/10W	TH1501	1-810-035-21	TEERMISTOR	
R1591	1-216-089-91			1/10W		< 101		
R1592 R1593 R1594	1-216-071-00 1-216-073-00 1-216-286-00	MRTAL GLAZE	8.2K 5% 10K 5%	1/10W 1/10W	TU101		TUNER (UV1316) (KV-28WS3A/28WS3B/28)	(S3D/28WS3E/28WS3K)
R1595 R1597	1-216-071-00 1-216-109-00	METAL GLAZE	4.7M 5% 9.2K 5% . 330K 5% -	1/8W 1/10W 1/10W		1-693-314-21	1000000, (000 220	(\$30)
R1601	1-216-083-00		27K 5%		W1 8/11		STAL >	
R1602 R1604 R1605 R1607		metal glaze metal glaze metal glaze	2.2M 5% 3.9K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	X1001 X1101 X1531 X2001	1-579-689-21 1-760-895-21	VIERATOR, CERAMIC (4) VIERATOR, CRYSTAL (8. (EV-28WS3B/28WS3E/28W VIERATOR, CERAMIC (2. VIERATOR, CERAMIC (20	.192MHz) IS3U) .69MHz)
R1608	1-216-119-00	METAL GLAZE		1/10W			**********	
R1609 R1610	1-216-055-00 1-216-075-00			1/10W 1/10W		1-473-191-11	IF BLOCK (IFH-389WE)	(EV-28WE31/28WE3D/
R1613 R1615	1-216-059-00 1-216-025-91			1/10W 1/10W			IF BLOCK (IFH-389RE)	28N3 3E]
R1616	1-216-105-91			1/10W			IF BLOCK (IFH-395GB)	
R1617 R1618 R2002	1-216-025-91 1-216-025-91 1-216-073-00	METAL GLAZE	100 5%	1/10W 1/10W 1/10W		, Can	ACITOR >	
R2003				1/10W	C01			47% 0.00
R2005 R2007 R2008 R2009 R2010	1-216-041-00 1-216-073-00 1-216-025-91 1-216-057-00 1-216-025-91	METAL GLAZE : METAL GLAZE : METAL GLAZE :	LOK 5% LOO 5% 2-2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C02 C03 C04 C05	1-164-299-11 1-164-337-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF ELECT 22MF	10% 25V 10% 25V 16V 16V 20% 50V
R2011 R2012 R2013 R2014 R2022	1-216-057-00 1-216-017-91 1-216-017-91 1-216-017-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2x 5% 17 5% 17 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C06 C07 C08 C09 C10	1-163-090-00	CERAMIC CHIP 0.0068MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 7PF	20% 50V 10% 50V 10% 50V 10% 25V 0.25PF 50V
R2023 R2024 R2025 R2026 R2029	1-216-295-91 1-216-065-00 1-216-063-91 1-216-065-00 1-216-091-00	METAL GLAZE S	.7K 5% 1.9K 5% 1.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C11 C12 C13 C14 C15	1-164-232-11 1-124-910-11 1-124-910-11 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.01MF	16V 104 50V 204 50V 204 50V - 104 50V
R2030 R2031 R2032	1-216-025-91 1-216-295-91 1-216-049-91	METAL GLAZE	5%	1/10W 1/10W 1/10W	C16 C17 C18 C19	1-164-232-11 1-163-117-00	CERAMIC CHIP 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF CERAMIC CHIP 1MF	16V 10% 50V 5% 50V 16V

## | F ( KV-28WS3A/28WS3D/28WS3E )

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C20	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V	-	< IC	>	
C21	1-164-222-11	CERAMIC CHIP 0.22MF	25V	IC01	8-759-289-18	IC TDA9813T-T	
C22	1-124-910-11	ELECT 47MP 20%	50V	IC02	8-759-514-54	IC BA7046	
C23	1-124-910-11	ELECT 47MP 20%	50V	1003	8-759-991-41	IC L78L05ACZ-AP	
647	- 104 ATA 11	(KV-28WS3A/28WS3D/28WS			0 /35 532 12	AC MICHODOLD AL	
C24	1-124-910-11	ELECT 47MF 20%	50V		< 001	L >	
C25	1-124-910-11	ELECT 47MF 20% (RV-28WS3A/28WS3D/28WS	50V 33E/28WS3K)	L01	1-408-409-00		i 18WS3A/28WS3D/28WS3E)
C26	1-124-910-11	ELECT 47MF 20%	50V		1-408-407-00		ME (KV-28WS3K)
C27	1-163-133-00	CERAMIC CHIP 470PF 5%	50V		1-408-408-00	INDUCTOR 6.80	IE (KV-28WS3D)
C28	1-124-910-11	ELECT 47MF 20%	50V	L02	1-403-686-11	COIL	
C29	1-164-232-11	CERANIC CHIP 0.01MF 10%	50V	L03	1-408-419-00	INDUCTOR 68UE	1
C30	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V	L04	1-408-419-00	INDUCTOR 68UE	I
C31	1-124-910-11	RLECT 47MF 20%	50V	L05	1-410-790-41	INDUCTOR 0.56	TH
C32	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V	F06	1-408-419-00	INDUCTOR 58UE	
C33	1-163-086-00		PF 50V	L07	1-408-408-00		H (KV-28WS3K)
C34	1-124-910-11	ELECT 47MF 20%	- 50V		, mpa	NSISTOR >	
C35	1-163-009-11	CERANIC CHIP 0.001MF 10%	50V		₹ 110	MOTOTOK >	
C35	1-104-656-11	ELECT 220MF 20%	6.3V	001	8-729-920-74	TRANSISTOR 2SC2412B	r_610
C30	1-104-000-11		(KV-28WS3K)	002	8-729-901-01	TRANSISTOR DTC144R	
C37	1-163-249-11		50V	002	0-723-301-01		!8WS3D/2BWS3B/2BWS3K)
631	1 103-245 11		(KV-28WS3K)	003	8-729-901-01	TRANSISTOR DTC144EF	
_						(KV-28WS3A/2	18W83D/28W83B/28W83K)
C38	1-163-237-11		5 <b>0V</b>				
		(KV-28WS3A/28W)	, ,	Q04	8-729-216-22	TRANSISTOR 25A1162-	-
	1-163-239-11	CERAMIC CHIP 33PF 5%	50V	Q05	8-729-216-22	TRANSISTOR 2SA1162-	-
			(KV-28WS3K)	Q06	8-729-920-74	TRANSISTOR 2SC2412F	(-QR
	1-163-243-11	CERAMIC CHIP 47PF 5%	50V	Q07	8-729-920-74	TRANSISTOR 25C2412F	C-QR
			(KV-28WS3U)	Q08	8-729-920-74	TRANSISTOR 25C2412)	K-QR 8WS3D/28WS3E/28WS3K
C39	1-163-097-00	CERAMIC CHIP 15PF 5%	50V			(A) - 20 (3 A) 2	(ACCINIA (ECCINOS (UCCINO)
			(KV-28WS3K)	Q09	8-729-920-74	TRANSISTOR 2SC2412	
	< FII	LTER >		010	8-729-920-74	(KV-28WS3A/2 TRANSISTOR 2SC2412F	(8WS3D/28WS3E/28WS3R) (-OR (RV-28WS3R)
CF01	1_760_416_21	FILTER, CERAMIC			, DFC	ISTOR >	
<b>P. 41</b>	1-740-410-21	(KV-28WS3A/28WS3D/28W	53E/28WS3K)		, 35ac	abion /	
CF02	1-760-449-11	FILTER, CERAMIC (KV-28WS3K)		JR01	1-216-296-91	METAL GLAZE 0	5% 1/8W
CF03	1-760-450-11	FILTER, CERAMIC		JR02	1-216-296-91	METAL GLAZE 0	5% 1/8W
		(KV-28WS3A/28WS3D/28W	33E/28WS3K)	JR03	1-216-296-91	METAL GLAZE 0	5% 1/8W
		,		JR04	1-216-296-91	METAL GLAZE D	5% 1/8W
CF04	1-760-106-11	TRAP, CERAMIC		JR05	1-216-295-91		5% 1/10W
		(KV-28WS3A/28WS3D/28WI FILTER, CERAMIC (KV-28WS3U)	53E/28WS3K)				8WS3D/28WS3E/28WS3U
F05		TRAP, CERAMIC (5.5MHZ)		JR06	1-216-295-91	METAL GLAZE 0	5% 1/10W
		(KV-28WS3A/28WS3D/28W	S3E/28W83E1	JR10	1-216-296-91		5% 1/8W
	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-2		JR11	1-216-296-91		5% 1/8W
SAW01	1_760_620_11	FILTER, SURPACE WAVE		R01	1-216-031-00	METAL GLAZE 180	5% 1/10W
are divined in	T-108-338-TT	(KV-28WS3A/28WS3D/28W	(7至 / 2月四の3か)	R02	1-216-031-00 1-216-057-00		5% 1/10W
	1_760_767_11	-		R03	1-216-057-00		
	1-100-131-11	FILTER, SURFACE WAVE (KV-28W	330)	R04			
	< 001	NNECTOR >		R05	1-216-041-00 1-216-041-00		5% 1/10W 5% 1/10W
CN01		PIN, CONNECTOR (PC BOARD) 10		R06	1-216-067-00		
CN 02	1-750-919-11	PIN, CONNECTOR (PC BOARD) 10:	2	R07	1_015_057.00		(8W83D/28WS3E/2WS3K)
	< DI	ODE >		8.01	1-216-067-00		5% 1/10W 8WS3D/28WS3B/2WS3E)
-04				R08	1-216-039-00		5% 1/10W
D01	8-719-421-57	DIODE MA73-TX (KV-28WS3A/28WS3D/28W	SSE/SEMGSE/			(KV-28WS3A/2	(8WS3D/28WS3B/2 <b>M</b> S3K)
D02	9_710_401_57	DIODE MA73-TX	Agal anudani	R09	1-216-073-00	METAL GLAZE 10K	5% 1/10W
	0-113-46T-31	(KV-28WS3A/28WS3D/28W	13E/28W53E)	R10	1-216-073-00		5% 1/10W
	1-216-206-01	METAL GLAZE 0 5% 1/3		MIG	1-710-001-00		9WS3D/28WS3E/2WS3K
	1-510-230-31		(KV-28WS3U)	R11	1-216-081-00		5% 1/10W
			(AT-20MD3U)	KII	T-510-001-00		5% 1/10M 8W83D/28W83B/2W <b>5</b> 3B)
03	8-719-914-43	DIODE DAN202K				\u.r -4989J&J 2	さいろうちょ せんいひろけり 6 利ごうかい
	2 144 344 45	or so have be accessed V 600 h		R12	1-216-113-00	METAL GLAZE 470K	5% 1/10W
				27.00	T PT0TT3-00	amini dinina 4/VA	A.S . TITAL

**IF** ( KY-28WS3B)

				1 X XV-2	01Y33IV20W33U				
REFJIO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTI	ION		REMARK
R13 R14	1-216-065-00 1-216-065-00	METAL GLAZE 4.7k METAL GLAZE 4.7k 5%	1/10W 1/10W	R54	1-216-075-00	METAL GLAZE	12K	5% 1/1	.0W KV-28WS3K)
R15 R17	1-216-035-00 1-216-081-00	METAL GLAZE 270 5% METAL GLAZE 22K 5%	1/10W 1/10W	R55	1-216-045-00	METAL GLAZE	680	5% 1/1	
R18 R19	1-216-093-00 1-216-242-91	METAL GLAZE 68K 5% METAL GLAZE 68K 5%	1/10W 1/8W	R56	1-216-045-00	METAL GLAZE	680	5% 1/1 (	.0W KV-28WS3K)
R20	1-216-033-00		1/10W /28WS3D/28WS3E)	R57	1-216-295-91	(KV-2		5% 1/1 WS3D/28WS	OW 3E/28WS3U)
	1-216-031-00		1/10W -28WS3K/28WS3U)		1-216-043-91	METAL GLAZE		5% 1/1	
R21	1-216-049-91		L/10W	R58	1-216-061-00			5% 1/1	OW
	1-216-061-00	METAL GLAZE 3.3K 5%	/28WS3D/28WS3E) 1/10W	R59	1-216-041-00		470	5% 1/1 {:	ow KV-28WS3K)
	1-216-055-00	METAL GLAZE 1.8K 5%	(KV-28WS3K) 1/10W	R50	1-216-067-00	METAL GLAZE	5.6K		OW KV-28WS3U)
R22	1 216 026 01	MEMAY CYSER 4AA FO.	(XV-28WS3U)	R61	1-216-025-91			5% 1/1: NS3D/28WS:	OW 3E/28WS30)
R23 R24	1-216-025-91 1-218-755-11 1-216-206-00				< VAR	IABLE RESISTO	R >		
R25 R26	1-216-107-00 1-216-073-00	METAL GLAZE 270K 5% METAL GLAZE 10K 5%	1/8W 1/10W 1/10W	RV01	1-241-786-11	RES, ADJ, CA	RBON 22K		
		••		******	**********	******	******	*******	******
R27 R28 R29	1-216-113-00 1-216-113-00 1-216-081-00	METAL GLAZE 470K 5% METAL GLAZE 470K 5% METAL GLAZE 22K 5%	1/10W 1/10W 1/10W		1-467-573-13	IF BLOCK (IF	H-389FX)	(KV-28W33	3B)
R30 R31	1-216-198-91 1-216-198-91		1/8W 1/8W		< CAP	ACITOR >			
R32	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	C101	1-163-017-00	CERAMIC CHIP	0.0047WF	7 10%	50V
R33 R34	1-216-059-00 1-216-095-00	METAL GLAZE 2.7K 5% METAL GLAZE 82K 5%	1/10W 1/10W	C102 C104	1-164-232-11 1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.01MF	10%	50 <b>V</b>
R35	1-216-083-00	METAL GLAZE 27K 5%	1/10W	C111	1-164-004-11	CERAMIC CHIP		10% 10%	50V 25V
R36	1-216-075-00	METAL GLAZE 12K 5%	1/10W	C112	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
R37	1-216-057-00	METAL GLAZE 2.2K 5% (KV-28WS3A/28WS3D/		C113 C114	1-164-489-11 1-124-925-11	CERAMIC CHIP	0.22MF 2.2MF	10% 20%	. 16♥ 50♥
R38	1-216-095-00	METAL GLAZE 82K 5% (KV-28WS3A/28WS3D/	1/10W 28WS3E/28WS3K)	C115 C116	1-124-916-11 1-124-916-11	BLECT BLECT	22MF 22MF	20% 20%	50V 50V
R39	1-216-059-00	METAL GLAZE 2.7K 5% (EV-28WS3A/28WS3D/	1/10W 28WS3E/28WS3K)	C117 C120	1-163-090-00	CERAMIC CHIP	7PF	0.25F	PF 50V
R40	1-216-075-00		1/10W	C121	1-124-925-11	ELECT	2.2MF 2.2MF	20% 20%	50 <b>∀</b>
R41	1-216-083-00		1/10W	C122 C123	1-164-232-11	CERAMIC CHIP	0.01MF	10% 10%	16V 50V
R42	1-216-174-00	(EV-28WS3A/28WS3D/ METAL GLAZE 100 5%	28WS3E/28WS3K) 1/8W	C126	1-163-085-00			0.252	P 50V
R43	1-216-037-00	METAL GLAZE 330 5%	1/10W	C128 C131	1-164-489-11 1-163-113-00	CERAMIC CHIP	0.22MF	10% 5%	16V 50V
R44	1-216-037-00	(KV-28WS3A/26WS3D/ METAL GLAZE 330 5%		C132	1-163-097-00	CERAMIC CHIP	15PF	5%	50Y
			1/10W	C133	1-163-113-00 1-163-239-11			5% 5%	50V 50V
R45	1-216-198-91	METAL GLAZE IN 5% (KV-28WS3A/2BWS3D/	1/8W 28WS3E/28WS3U)	C135	1-124-477-11	ELECT	47MF	20%	16V
	1-216-194-00	METAL GLAZE 680 5%	1/8W (KV-28WS3K)	C141 C143	1-163-249-11 1-163-251-11	CERAMIC CHIP	82PF	5% 5%	50V
R45	1-216-049-91	METAL GLAZE 1K 5%	1/10W	C145	1-124-477-11	ELECT	47MF	20%	50V 16V
R47	1-216-198-91		1/8W	C151	1-124-477-11	ELECT	47MF	20%	16V
R48	1-216-049-91	METAL GLAZE 1K 5% (KV-28WS3A/28WS3D/	1/10W 28WS3R/28WS3K)	C152	1-124-477-11 1-124-477-11	ELECT	47MF 47MF	20% 20%	16V 16V
R49 R50	1-216-051-00 1-216-039-00	METAL GLAZE 1.2K 5%	1/10W 1/10W	C162	1-124-477-11	ELECT	47MP	20%	16V
R51		METAL GLAZE 390 5%	1/10W	C173 C174		CERANIC CHIP		10% 0.5Pp	50V 50 <b>V</b>
R52			(KV-28NS3K)	C175		CERANIC CHIP		0.599	50V
	1-216-039-00	(KV-28WS3A/28WS3D/)	1/10W 28WS3R/28WS3K)	C177 C191	1-164-004-11 1-164-232-11	CERAMIC CHIP	0.1MF 0.01MF	10% 10%	25V 50V
R53	1-216-083-00		1/10W (KV-28WS3K)	C201 C202	1-164-346-11 1-164-232-11	CERAMIC CHIP	1MP	10%	16V 50V

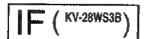
## IF (KV-28WS3B)

DEENO	DADTEG	-	neu neu	IADV	DEFAO	DAUTHA	Всефритом		Denany
REF.NO.	PART NO.	DESCRIPTION	_	IARK_	REF.NO.	PART NO.	DESCRIPTION	•	REMARK
C203 C204		CERAMIC CHIP 1MF	20% 16 16 10% 50	W .	Q152		TRANSISTOR 280		
C205 C206	1-164-161-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 100PF	10% 50° 5% 50°		Q153 Q154		TRANSISTOR DI		
C207		CERAMIC CHIP 0.22MF	25	V	0161		TRANSISTOR 250		
C298	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50	lΔ	Q162 Q171	8-729-216-22	TRANSISTOR 250 TRANSISTOR 250		
C302 C502	1-164-232-11 1-124-477-11	CERAMIC CHIP 0.01MF ELECT 47MF	10% 50° 20% 16		0174	9_729_0 <b>n1</b> _01	TRANSISTOR DIV	2144PX	
C503	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50	rv	Q175	8-729-901-01	TRANSISTOR DIV	C144EK	
C901	1-124-477-11	ELECT 47NF	20% 16	W	Q176 Q181		TRANSISTOR DTG TRANSISTOR 250		
C902-	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50	יעי	Q191	8-729-216-22			
	< FILT	TER >			0201	8-729-216-22	TRANSISTOR 28	M1162-G	
CF171		FILTER, CERAMIC				< RES	ISTOR >		
CF172 CF173		FILTER, CERAMIC FILTER, CERAMIC			JR101	1-216-295-91	METAT, ČLAŽE	0 5%	1/10W
CF174		FILTER, CERAMIC			JR102	1-216-296-00	METAL GLAZE	0 - 5%	1/8W
SWF101	1-579-273-11	FILTER, SURFACE WAVE			JR103 JR104	1-216-296-00 1-216-295-91		0 5% D 5%	1/8W 1/10W
SWF103		FILTER, SURFACE WAVE			JR106	1-216-296-00		0 5%	1/8W
	< COND	ECTOR >			JR107	1-216-295-91		0 5%	1/10W
CN1	1-750-919-11	PIN, CONNECTOR (PC BOAR	D) 10P		JR109 JR110	1-216-295-91 1-216-295-91		0 5%	1/10W 1/10W
CN2		PIN, CONNECTOR (PC BOAR		+	JR111	1-216-296-00	METAL GLAZE	0 5%	1/8W
	< TRIM	DEER >			JR112	1-216-295-91		0 5%	1/10W
CT101	1-760-154-21	יינים מבטיי			JR113 JR114	1-216-296-00 1-216-295-91		0 5%	1/8W 1/10W
CT131	1-409-430-11			2	JR115	1-216-295-91	METAL GLAZE	0 - 5%	1/10W
	< DIOD	OE >		F	JR116 JR117	1-216-296-00 1-216-296-00		0 < 5% 0 5%	1/8W 1/8W
D101	8-719-914-43	DIODE DAN202K			JR118	1-216-296-00	METAL GLAZE	0 . 5%	1/8W
D171 D201		DIODE DAN202K			JR119 JR120	1-216-296-00 1-216-295-91		0 5% 0 5%	1/8W 1/10W
Davi	9-113-314-42	DICOR DANZUZE			JR121	1-216-296-00	METAL GLAZE	0 5%	1/8W
	< IC >	•		F.	JR122	1-216-296-00	METAL GLAZE	0 5%	1/8W
IC1 IC2	8-759-193-13 8-759-514-54				JR123 JR124	1-216-296-00 1-216-296-00		0 5% 0 5%	1/8W 1/8W
IC3	8-752-069-79				JR125	1-216-295-91	METAL GLAZE	0 5%	1/10W
IC4	8-759-710-86	IC NJM2233BM			JR126 JR127	1-216-295-91 1-216-296-00		0 5% 0 5%	1/10W 1/8W
	< COII	ı >		į					
L101	1-408-419-00	INDUCTOR 68UH		i	JR128 JR129	1-216-295-91 1-216-295-91	METAL GLAZE	0 5% 0 5%	1/10W 1/10W
L102 L131	1-410-985-11	INDUCTOR CHIP 0.22UH INDUCTOR 6.8UH			JR130 JR131	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8W
L132		INDUCTOR 39UH			JR132	1-216-296-00	METAL GLAZE	0 5%	1/8N
142	1-408-409-00	INDUCTOR 10UH			JR133	1-216-296-00	METAL GLAZE	0 5%	1/BW
L171	1-408-609-41			I	JR134	1-216-295-91	METAL GLAZE	0 5%	1/10W
L201 L501		INDUCTOR 68UH INDUCTOR 15UH		į	JR135 JR136	1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/10W
L901		INDUCTOR 15UH			JR137	1-216-296-00	METAL GLAZE	0 5%	1/8W
	< TRAN	MSISTOR >			JR138 JR140	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/8W
Q101		TRANSISTOR 2SC3355			JR141	1-216-296-00	METAL GLAZE	0 5%	1/8W
Q102 Q104		TRANSISTOR DTC144EK TRANSISTOR DTC144EK		i	JR142 JR143	1-216-295-91 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/10W 1/8W
Q121	8-729-216-22	TRANSISTOR 2SA1162-G						•	
Q131	8-729-920-74	TRANSISTOR 2SC2412K-QR			JR145 JR146	1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/8W 1/10W
0132		TRANSISTOR 2SC2412K-QR			JR150	1-216-295-91	METAL GLAZE	0 5%	1/10W
Q141 Q142		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR			JR152 JR154	1-216-296-00 1-216-296-00	metal glaze Metal glaze	0 5% 0 5%	1/8W 1/8W
Q151	8-729-920-74	TRANSISTOR 2SC2412K-QR			+-			•	

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	REF.NO.	PART NO.	DESCRIPTION	<u>Į</u>		REMARK	REF.NO	PART NO.	DESCRIPT	<u>ion</u>			REMARK
	JR150 JR161 JR162 JR166 JR167	1-216-295-00 1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 -	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W	R184 R185 R191 R192 R193	1-216-043-00 1-216-067-00 1-216-093-00 1-216-093-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 5.6K 68K 68K 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R100 R102 R103 R104 R105	1-216-025-00 1-216-059-00 1-216-001-00 1-216-176-11 1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.7K III 120	5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	R194 R195 R201 R202 R203	1-216-049-00 1-216-216-00 1-216-198-91 1-216-107-00 1-216-073-00	METAL GLAZE METAL GLAZE	1K 5.6K 1K 270K 10K	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W	
	R106 R107 R109 R111 R113	1-216-057-00 1-216-057-00 1-216-057-00 1-216-295-91 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 0		1/10W 1/10W 1/10W 1/10W 1/10W	R204 R205 R206 R207 R208	1-216-113-00 1-218-755-11 1-216-049-00 1-216-113-00 1-216-113-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	100	5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R114 R115 R116 R117 R118	1-216-035-00 1-216-035-00 1-216-025-00 1-216-031-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	270 100 180	5%	1/10W 1/10W 1/10W 1/10W 1/10W	R209 R210 R211 R301 R302	1-216-049-00 1-216-081-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 22K 10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R120 R131 R133 R134 R135	1-216-180-00 1-216-198-91 1-216-031-00 1-216-049-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K 180 1K	5% 5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W	R303 R306 R308 R309 R310	1-216-049-00 1-216-049-00 1-216-073-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R136 R137 R138 R139 R140	1-216-041-00 1-216-041-00 1-216-049-00 1-216-067-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	470 ! 1K ! 5.6K !	,	1/10W 1/10W 1/10W 1/10W 1/10W	RV111 RV112	< VAR 1-241-786-11 1-241-765-11		RBON 22K			
	2140	4 04 6 040 00		4-				< TRA	NSFORMER >				
	R142 R144 R145	1-216-049-00 1-216-041-00 1-216-041-00	NETAL GLAZE	470 !		1/10W 1/10W 1/10W	T111	1-403-686-22	COIL				
	R146 R147	1-216-043-00 1-216-025-00			5% 5%	1/10W 1/10W	*****	***********	********	******	*****	****	*****
	R148	1-216-049-00	NETAL GLAZE	1K !	5%	1/10W		*A-1636-009-A	BOARD, COM	PLETE ****			
	R149 R151 R152 R153	1-216-226-00 1-216-069-00	METAL GLAZE METAL GLAZE	15K 5	5% 5%	1/10W 1/8W 1/10W 1/10W		4-368-683-21 4-382-854-11	SPRING, TRAN SCREW (M3X10		(+)		
	R154							< CAP	ACITOR >				
	R155 R156 R161 R162	1-216-057-00 1-216-057-00 1-216-037-00 1-216-079-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 5 18K 5	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C602 C603 C604 C605	1-136-171-00 1-137-399-11	CERANIC CERANIC FILM FILM	470PF 470PP 0.33MF 0.1MF	1		500V 500V 50V 50V
	R163 R164	1-216-689-11 1-216-057-00				1/10W 1/10W	C606 C607	1-136-171-00 1-137-399-11	FILM FILM	0.33MF	5		50V 50V
	R165	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C608	1-164-625-11	CERAMIC	680PF	1	0%	500V
1	R166 R167	1-216-073-00	METAL GLAZE	10K 5	5%	1/10W 1/10W	C609 C610 C611	1-129-718-00 1-126-953-11 1-126-953-11	Film Elect Elect	0.022MF 2200MF 2200MF		0%	630V 35V 35V
1	R168 R169	1-216-212-00 1-216-067-00				1/8W 1/10W	C613	1-128-548-11	RIGECT	4700MF	2	0%	25V
	R171 R177	1-216-045-00	METAL GLAZE	680 5	5%	1/10W	C614	1-128-548-11	ELECT	4700MF	2	0%	25V
J	R178	1-216-025-00 1-216-057-00	METAL GLAZE	2.2K	5%	1/10W 1/10W	C615 C616 C617		ELECT CERAMIC MYLAR	330MF 680PF 0.0047M	1	0%	160V 500V 400V
	R179 R180	1-216-057-00 1-216-057-00				1/10W 1/10W	C618		MYLAR	0.002210			400v
3	R181	1-216-041-00	METAL GLAZE	470 5	5%	1/10W	C619	1-136-165-00	FILM	0.1MF	- 5	k *	50y
	R182 R183					1/10W 1/8W	C620 C621		RLECT PILM	47MF 0.47MF			50 <b>y</b> 30 <b>0y</b>
							C622		FILE	0.33MF			300V



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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
C624	CERAMIC 0.0022MF ELECT 330MF ELECT 22MF	20% 400V 20% 400V 20% 25V 20% 50V 250V	FB603 1-410-396-	FERRITE BEAD > 41 FERRITE BEAD INDUCTOR 0.45UH 41 FERRITE BEAD INDUCTOR 0.45UH	
C630 1-162-599-12 C631 A 1-161-964-91 C633 1-125-555-11 C635 1-136-165-00 C636 1-136-165-00	CERAMIC 0.0047MF BLECT 330MF FILM 0.1MF	250V 250V 20% 400V 5% 50V 5% 50V	10601 1-810-051-: 10602 A 8-749-010-	IC > 11 POWER MODULE DM-48 64 PHOTO COUPLER PC123F2 COLL >	
C637 1-126-964-11 C638 1-126-964-11 C639 1-126-964-11 C642 1-162-580-51 C645 1-102-002-91	BLECT 10MF BLECT 10MF CERAMIC 0.01MF	20% 50V 20% 50V 20% 50V 400V 10% 500V	L602 1-412-525-3 L603 1-412-525-3 L605 1-412-523-3	100 INDUCTOR 100H 11 INDUCTOR 100H 11 INDUCTOR 100H 11 INDUCTOR 6.8UH 11 INDUCTOR 6.8UH	
C646 1-135-171-00 C647 1-136-171-00 C650 1-126-964-11 C651 1-136-171-00 C652 1-136-171-00 C653 1-136-169-00	FILM 0.33MF ELECT 10MF FILM 0.33MF FILM 0.33MF	5% 50V 5% 50V 20% 50V 5% 50V 5% 50V	LP601 A 1-424-436-1 T601 A 1-429-255-1 T602 A 1-427-864-1	TRANSFORMER, LINE FILTER  11 TRANSFORMER, CONVERTER (PIT)  11 TRANSFORMER, CONVERTER (PRT)	
CN0008 A 1-508-786-11	NUBSCTOR >  PIN, CONNECTOR (5MM PITC PIN, CONNECTOR (5MM PITC		PS601 A 1-532-586-5 PS602 A 1-532-686-5	IC LIMK >  91 LIMK, IC (ICP-N75) 2.7A  91 LIMK, IC (ICP-N75) 2.7A	
CN0701 *1-564-516-11	PLUG, CONNECTOR 13P PIN, CONNECTOR (PC BOARD		PS605 A 1-532-845-2	01 LINE, IC (ICP-N75) 2.7A 21 LINE, IC (PRP4000) 4A	
< DI	ODE >			TRANSISTOR >	
D602 8-719-991-33 D603 8-719-109-89 D605 8-719-047-31	DIODE D4SB60L DIODE 1SS133T-77 DIODE RD5.6ESB2 DIODE RBA-402L DIODE D10SC4M		Q602 8-729-032-8 Q603 8-729-119-7 Q604 8-729-200-2	7 TRANSISTOR 2SC4834NP-F09 7 TRANSISTOR 2SC4834NP-F09 8 TRANSISTOR 2SC2765-HFE 1 TRANSISTOR 2SC2500-B 1 TRANSISTOR 2SA733-K	
D609 8-719-047-31 D610 8-719-510-64 D612 8-719-911-19	DIODE DIOSC4M DIODE RBA-402L DIODE S2LA2OF DIODE 1SS119-25 DIODE 1SS119-25		Q607 8-729-029-5 Q608 8-729-119-7 Q610 8-729-173-3 Q611 8-729-119-7	78 TRANSISTOR 25C2785-HFE 76 TRANSISTOR DTA144ESA 78 TRANSISTOR 25C2785-HFE 78 TRANSISTOR 25C2785-HFE 78 TRANSISTOR 25C2785-HFE	
D615 8-719-911-19 D616 8-719-911-19 D617 8-719-911-19	DIODE 188119-25 DIODE 188119-25 DIODE 188119-25 DIODE 188119-25 DIODE 188119-25		Q613 8-729-030-0 Q614 8-729-029-5 Q615 8-729-200-2 Q616 8-729-030-0	88 TRANSISTOR 2SA733-K 13 TRANSISTOR DTC144ESA-TP 16 TRANSISTOR DTA144ESA 11 TRANSISTOR 2SC2500-B 13 TRANSISTOR DTC144ESA-TP	
	DIODE 188119-25 DIODE 188119-25			66 TRANSISTOR DTA144ESA	
D621 8-719-911-19 D622 8-719-510-64	DIODE 185119-25 DIODE S2LA20F DIODE S2LA20F		R601 1-202-933-6 R602 1-247-891-0	0 CARBON 330K 5% 1/4	
D625 8-719-911-19 D626 8-719-911-19	DIODE R2K-V1 DIODE 1SS119-25 DIODE 1SS119-25		R604 1-216-369-0 R605 1-247-891-0	00 METAL DEIDE 1 5% 2W 00 CARBON 330K 5% 1/4	P W
D628 8-719-911-19 D630 8-719-991-33	DIODE 1SS119-25 DIODE 1SS119-25 DIODE 1SS133T-77	_	R608 1-247-887-0 R609 1-249-429-1	00 METAL ORIDE 1 5% 2W 00 CARBON 220K 5% 1/4 11 CARBON 10K 5% 1/4	F
D632 8-719-991-33 D633 8-719-991-33	DIODE 188133T-77 DIODE 188133T-77 DIODE 188133T-77		R610 1-249-419-1 R616 A 1-205-949-1	11 CARBON 1.5% 5% 1/4 11 WIREWOUND 1.8 5% 10W	N =
8-/19-991-33	DIODE 188133T-77		R618 A 1-205-949-1 R619 A 1-244-945-9 R620 A 1-218-265-9	1 CARBON 1W 5% 1/2	<b>#</b>

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REF.N	O. PART NO.	DESCRIPT	ION		REMARK	REF.NO.	PART NO.	DESCRI	PTION		REMARK
R621	1-249-417-12	1 CARBON	116	5% (1/6	lw r	C711	1-101-880-00	CERAMIC	47PF	5%	50V
R622	1-249-430-11	L CARBON	100	FB 177	lee.	C712	1-102-978-00		220PF	5%	507
R623	1-249-436-11		12K 39K	5% 1/4 5% 1/4		C713	1-102-980-00	CERAMIC	270PF	5%	50Y
R624	1-249-425-11		4.7K	5% 1/4		C714	1 100 000 00	600×410			
R625	1-247-815-91		220	5% 1/4		C714	1-102-980-00		270PF	5%	507
R626	1-247-863-91		22K	5% 1/4		C720	1-128-526-11 1-162-116-00	ELECT CERAMIC	100MF 680PF	20% 10%	2KV
R627	1-247-815-91		220	5% 1/4	LW.		< 00	NNECTOR >			-
R628	1-249-411-11		330	5% 1/4		ĺ					
R630	1-249-429-11		10K	5% 1/4	W	CN0003	. 1-695-915-11		CT)		
R631	1-215-477-00			1% 1/4	W	CN0004	1-695-915-11	TAB (CONTA	CT)		
R632	1-249-417-11	CARBON	1K	5% 1/4	W	CN0411	*1-568-882-11		CTOR 7P		
R633	1-249-429-11	CARBON	10E	5% 1/4	W	CN0421	*1-508-767-00	PIN, COMME	CTOR (5MM PIT	(CH) 5P	
R634	1-247-895-91			5% 1/4			< DI(	nne s			
R635	1-249-417-11		1R	5% - 1/4			, 51	/LD /			
R636	1-207-905-00			10% 2W	F	D701	8-719-991-33	DIODE 1881	33T-77		
R637	1-249-389-11	. CARBON	4.7 .	5% 1/4	W II	D702	8-719-991-33	DIODE 1881	33T-77		
ncoo	4 040 405 44	*****	4 =-			D703	8-719-991-33	DIODE 1881	33T-77		
R638	1-249-425-11			5% 1/4		D704	8-719-991-33	DIODE 1SS1	33T-77		
R639 R640	1-247-791-91		22	5% 1/4		D705	8-719-991-33	DIODE 1551	33T-77		
R641	1-247-791-91 1-247-791-91			5% 1/4							
R642	1-247-791-91			5% 1/4 5% 1/4		D706	8-719-991-33				
MAGG	1-247-792-91	CHEDUN	24	5% 1/4	Ħ	D707 D708	8-719-991-33		33 <b>T-7</b> 7		
R644	1-249-425-11	CARBON	4.7K	5% 1/4	10	D709	B-719-991-33		33T-77		
R645	1-249-415-11			5% 1/4		D714	8-719-991-33 8-719-109-97				
R646	1-249-403-11			5% 1/4		27.13	0-113-103-31	DIODE RD6.8	3E3-B4		
R647 R651	1-249-429-11		10K	5% 1/4 5% 2W		D715	8-719-018-82	DIODE RGP02	-20EL-6394		
					_		< CRI	SOCKET >			
R652 R653	1-247-891-00 1-247-891-00			5% 1/4 5% 1/4		107 B-1 A	4 FOC 500 44		_		
R654	1-247-891-00			5% 1/4		J701 A	1-526-990-14	SOCKET, CRY			
R655	1-247-891-00			5% 1/4			< COI	7 .			
R656	1-249-439-11			5% 1/4		1	7 001	L /			
DEE 7	1 030 100 11	C1000H			_	L701	1-408-413-00	INDUCTOR	22UH		
R657 R658	1-249-429-11			5% 1/4		L702	1-408-413-00	INDUCTOR	22UH		
R659	1-249-421-11 1-249-425-11		2.2K 4.7K			L703	1-408-409-00		10UH		
R660	1-249-429-11			5% 1/41		L704 L705	1-408-413-00	INDUCTOR	22UH		
R661	1-249-421-11			5% - 1/41		11/03	1-408-409-00	INDUCTOR	100H		
R662	1-249-421-11	CIDDON	2.2K	5% 1/41		L706	1-408-413-00	INDUCTOR	220H		
R663	1-249-429-11			5% 1/41 5% 1/41		L707	1-408-409-00	INDUCTOR	10UH		
R654	1-249-429-11			5% 1/41			, moa	NSISTOR >			
R665	1-249-425-11	CARBON		5% - 1/49			, LIMI	dotelok )			
	e Rici	LAY >				Q701 Q702	8-729-326-11	TRANSISTOR	2SC2611		
		M11 /				Q702	8-729-326-11 8-729-326-11	TRANSISTOR	2SC2611		
RY601	<b>△</b> 1-515-720-31	RELAY				0704	8-729-326-11	TRANSISTUK .	2SU2611		
		SKMISTOR >				Q705	8-729-326-11	TRANSISTOR	25C2611		
figne or						Q706	8-729-326-11	TRANSISTOR	2SC2611		
Inro()1	A 1-809-827-11	THERMISTUR,	PUSITIVE			Q707 Q708	8-729-200-17 8-729-200-17	TRANSISTOR :	2SA1091-0		
	< VAI	RISTOR >				0709	8-729-200-17	TRANSISTOR :	2SA1091-0		
VDR601	1-810-977-11	VARISTOR				Q710	8-729-119-78				
****	********	********	*******	******	*****	0711 0712	8-729-119-78 8-729-119-78	TRANSISTOR :	2SC2785-HFE		
	*A-1638-070-A	C BOXED CORE	מחק זם			Q714	8-729-255-12	TRANSISTOR 2	2SC2551-0		
	V-1030-01A-V	********				Q715	8-729-173-38	TRANSISTOR 2	2SA733-K		
	4-382-854-11	SCREW (M3X10)	), P, SW	(+)			< RESI	STOR >			
			., .,	•		R701	1-202-846-00	SOLID	470K 20%	1/20	
	< 7.4T	PACITOR >				R702 R703	1-202-838-00	SOLID	100K 20%	1/2%	
C701	1-162-114-00	CERAMIC	0.0047MF	,	2KV	R705	1-202-838-00 1-249-377-11	CIBBOA	100K 20% 0.47 5%	1/29	ъ
C703	1-107-651-11	ELECT	4.7MF	20%	250 <b>7</b>	R705	1-249-377-11	CARBON	0.47 5%	1/4m 1/4m	
									A+21 734	; ±¶	•

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R707 R708 R709 R710 R711	1-249-416-11 1-249-416-11 1-249-416-11 1-215-922-11 1-202-549-00	CARBON CARBON	820 5% 820 5% 6.BK 5%	1/4W 1/4W 1/4W 3W F 1/2W	C823 C824 C825 C827 C835	1-164-232-11 1-162-117-00 1-124-902-00 1-102-228-00 1-107-655-11	CERAMIC 100PF ELECT 0.47MF CERAMIC 470PF	10% 50V 10% 500V 20% 50V 10% 500V 20% 250V
R712 R713 R714 R715 R716	1-215-922-11 1-202-549-00 1-215-922-11 1-202-549-00 1-249-405-11	METAL OXIDE SOLID METAL OXIDE SOLID CARBOM	6.8K 5% 100 20%	3W F 1/2W 3W F 1/2W 1/4W F	C836 C837 C838 C839 C840	1-102-228-00 1-102-228-00 1-102-228-00 1-126-941-11 1-126-941-11	CERAMIC 470PF CERAMIC 470PF ELECT 470NF	10% 500V 10% 500V 10% 500V 20% 25V 20% 25V
R717 <sup>6</sup> R718 R725 R726 R727	1-249-405-11 1-249-405-11 1-249-421-11 1-249-421-11 1-249-421-11	CARBON CARBON		1/4W F 1/4W F 1/4W 1/4W	C841 C842 C863 C873 C874	1-106-375-12 1-136-559-11 1-163-017-00 1-162-134-11 1-164-645-11	FILM 0.0047MF CERAMIC CHIP 0.047MF	10% 250V 10% 400V 10% 50V 10% 2KV 10% 500V
R728 R729 R730	1-249-407-11 1-249-407-11 1-249-407-11	CARBON CARBON	150 5% 150 5% 150 5% 22 5%	1/4W 1/4W 1/4W	C875 C892	1-163-009-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF NECTOR >	5% 50V 10% 50V
R731 R732	1-247-791-91 1-247-791-91		22 5% 22 5%	1/4W 1/4W	i   CN0009 -		PIN. CONNECTOR 3P	
R733 R734 R738 R739 R740	1-247-791-91 1-202-549-00 1-249-401-11 1-249-401-11 1-249-401-11	SOLID CARBON CARBON	22 5% 100 20% 47 5% 47 5% 47 5%	1/4W 1/2W 1/4W 1/4W 1/4W	CN0501 CN0503 CN0504 CN0505	*1-564-516-11 (1-764-607-11 1-764-607-11 1-764-607-11	PLUG, CONNECTOR 13P CONNECTOR, BOARD TO BOA CONNECTOR, BOARD TO BOA CONNECTOR, BOARD TO BOA	ARD 8P ARD RM
R743 R747 R749 R751	1-249-435-11 1-216-489-11 1-216-489-11 1-216-489-11	METAL OXIDE	33K 5% 27K 5% 27K 5% 27K 5%	1/4W 3W F 3W F 3W F	DY1		PIN, CONNECTOR (5MM PT) CONNECTOR PIN (DY) 6P  DE >	rca) or
R753 R767	1-249-429-11	CARBON CARBON	10% 5% 47% 5%	1/4W	D802 D803	8-719-979-99 8-719-043-14	DIODE ERDOSM-15 DIODE ESAD39M-06C	
R768	1-249-417-11 < VAI	CARBON RIABLE RESISTOR		1/4W	D804 D805 D806	8-719-971-20 8-719-908-03 8-719-908-03	DIODE ERC38-06 DIODE GP08D DIODE GP08D	
70 CT D 1		RES. ADJ. MET.			D811	8-719-302-43		
R <b>V701</b> RV7 <b>0</b> 2		RES, ADJ, MET			D812 D813	8-719-510-26	DIODE DINL20 DIODE DINL20	
*****	*******	**********	******	*********	D815 D872	8-719-110-13 8-719-914-43	DIODE RD9.1ESB2	
	*A-1640-182-A	D BOARD, COMP			D874		DIODE DA204K	
	4-200-399-01	SDACED TO			:		RRITE BEAD >	
		SCREW (M3X10)	, P, SW (+)		FB801		FERRITE BEAD INDUCTOR (	n Asma
	c CAI	PACITOR >			FB802 FB803	1-410-396-51	FERRITE BEAD INDUCTOR ( FERRITE BEAD INDUCTOR (	0.450H
C801 C802 C804	1-123-024-21 1-136-207-11 1-163-001-11			1607 10% 2507 10% 50V		∢ IC	>	
C805 C80B	1-102-030-00 1-162-116-00			10% 500V 10% 2KV	10801	8-759-103-93		
C809	1-162-116-00	CERANIC	680PF	10% 2EV		< COI	IL >	
C810 C811 C812 C813	1-106-367-00 1-109-833-11 1-136-759-11 1-109-844-11	MYLAR FILM FILM	0.01NF 0.0145NF 0.039NF	10% 400V 3% 1.8KV 5% 630V 5% 400V	L802 L803 L806 L811 L813	1-459-474-11 1-459-592-11 1-459-104-00	COIL (WITH CORE) COIL (WITH CORE) COIL (WITH CORE) COIL, WITH CORE COIL, WITH CORE	
C814 C816 C817 C819 C822	1-129-702-00 1-109-844-11 1-136-759-11 1-137-102-91 1-126-967-11	PILM FILM PILM	0.68MF 0.039MF 0.022MF	10% 400V 5% 400V 5% 630V 10% 250V 20% 50V	L814 L815 L816	1-422-613-11	COIL, AIR CORE FERRITE BEAD INDUCTOR	l.10H

The components identified by shading and marked in are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque 🦸 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO	. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIP	TION		REMARK
	< TR	AMSISTOR >				*A-1644-064-A	VM BOARD, (	CONPLETE		
<b>Q8</b> 01	8-729-119-80	TRANSISTOR 2SC	2699_12				******	******		
0802 0803	8-729-821-07 8-729-931-45	TRANSISTOR 2SC	3997CA			*4-368-683-21 4-382-854-11		ANSISTOR 10), P, SW (+)		
	< RE	SISTOR >				< CAI	PACITOR >			
JR502	1-216-295-91		D 5%	1/10W	C1701	1-126-933-11	KLECT	100MF	20%	16₹
JR503 JR504	1-216-295-91		0 5%	1/10W	C1702	1-102-074-00	CERAMIC	0.001MF	10%	50Y
JR504 JR505	1-216-295-91		D 5% D 5%	1/10W 1/10W	C1703 C1704	1-126-933-11 1-126-933-11	ELECT ET. DOD	100MF 100MF	20%	16V
**	* 410 833 31	EMILLI CARALI	2 20	1/104	C1705	1-107-638-11		33MP	20% 20%	16V 160V
R802	1-215-916-00		580 5%	3W F						
R803 R804	1-215-916-00		680 5% 680 5%	3W F	C1706 C1707	1-104-999-11 1-104-989-91		0,1MP 0.0022MP	5% 5%	200V
R805			10K 5%	3W II	C1708	1-137-364-11		0.0022AF 0.001MF	5%	200V 50V
R806	1-216-037-00	METAL GLAZE	330 5%	1/10W	C1709	1-137-364-11		0.001MF	5%	50V
D007	1 515 651 65	10001 CV 160	3 2W F6.	6 (4 Box	C1720	1-107-667-11	RLBCT	2.2MF	20%	160V
R807 R808			3.3K 5% 0.47 5%	1/10W 3W F	C1721	1-104-989-91	PTIM	0.0022MF	5%	200⊽
R809	1-215-880-00	METAL OXIDE	10 5%	2W F	C1722	1-128-581-11		4.7MF	20%	- 100V
R810	1-215-914-11	METAL OXIDE	330 5%	3W P	C1723	1-161-830-00		0.0047MF	200	500V
R811	1-216-434-11	METAL OXIDE	L.8K 5%	1W F	C1841	1-130-481-00		0.006BMF	5%	5 <b>0</b> V
R817	1-202-972-61	मादाहा ह	L 5%	1/4W F	C1844	1-106-367-00	MYLAR	0.01MF	10%	- 400¥
R818	1-249-377-11	CARBON	).47 5%	1/4W F	C1845	1-106-220-00	MYLAR	0.1MF	10%	100V
R819	1-249-377-11		0.47 5%	1/4W F						
R820 R821	1-214-907-00 1-249-428-11		56K 1% 3.2K 5%	1/2W - 1/4W		< CON	NECTOR >			
	1 217 110 14	GIBBOOK (	Mark 34	- 17 km	CN1015	*1-568-981-51	PIN, CONNEC	TOR 6P		
R823	1-216-055-00		1.8X 5%	1/10W			_			
R835 R837	1-216-079-00 1-216-059-00		LBK 5% 2.7x 5%	1/10W 1/10W	İ	< DIO	DE >			
R842	1-249-887-11		3 5%	1/4W F	D1701	8-719-991-33	DIODE 18813	34-77		
R843	1-202-822-00	SOLID	2.2K 20%	1/2W	D1702	8-719-110-88	DIODE RD39E	SB2		
R844	1-249-424-11	Ganbow 5	. A. ED.	1 / 874	D1703	8-719-110-88	DIODE RD39E	SB2		
R845	1-216-099-00		3.9K 5% L20K 5%	1/4W 1/10W	D1840 D1841	8-719-302-43 8-719-991-33		2m_77		
R850	1-249-389-11	CARBON 4	.7 5%	1/4W F	32022	V 123 332 33	DIODE IDDIO	31.77		
R851 R852	1-216-399-00		.B 5%	3W		< C0I	L >			
10072	1-216-119-00	METAL GLAZE	320K 5%	. 1/10N	51701	1-408-603-41	THINKARAD	10UH		
R853	1-216-119-00	METAL GLAZE	20 5%	1/10W	L1702	1-408-597-41	INDUCTOR	3.3DH		
R854	1-216-081-00	METAL GLAZE	2K 5%	1/10W	L1703	1-408-603-41		10UH		
R855 R856	1-216-089-91 1-216-073-00		17K 5% 10K 5%	1/10W 1/10W	L1841 L1843	1-459-075-00			CHOR	
R857	1-216-085-00		3X 5%	1/10W	TITOGO	1-459-104-00	COIL, WITH	LUKE		
#BE0						< TRA	NSISTOR >			
R858 R859	1-216-061-00 1-202-822-00		1.3K 5%	1/10W 1/2W	01701	0 770 110 70	MD 1 MGT GGOD	0.000005 2000		
2.003	1-202-082-00	20010	OVA NACE	1/41	01702	8-729-119-78 8-729-119-78	TRANSISTOR	4804765-HFK 2802785-HFR		
R894	1-216-295-91			1/10W	Q1703	8-729-017-05	TRANSISTOR	2SA1837		
R895 R896	1-215-866-11 1-216-295-91		30 5% 5%	1W P	Q1704	8-729-119-78	TRANSISTOR	2SC2785-HFE		
R874	1-216-295-91			1/10W 1/10W	Q1705	8-729-173-38	TRANSISTOR :	28A733-K		
R897	1-216-295-91		70K 5%	1/10W	Q1706	8-729-017-06	TRANSISTOR :	2SC4793		
R898	1 016 107 00	MEMAT AT LOT		4 24 600	Q1707	8-729-255-12	TRANSISTOR :	2SC2551-0		
R899	1-216-107-00 1-216-105-91		5% 20k 5%	1/10W 1/10W	Q1840 Q1841	8-729-119-78 8-729-017-06	TRANSISTOR :	2SC2785-EFE		
				2, 2017	22021	5 725 011 00	INCHESTION !	95C6133		
		MSFORMER >				< RES	ISTOR >			
<b>T</b> 801 <b>T</b> 803		TRANSFORMER, FE			R1701	1-249-417-11		1K 5%	1/49	
T804		COIL, HORIZONTA			R1702 R1703	1-249-417-11 1-249-421-11		1K 5% 2.2K 5%	1/4W 1/4W	
T805	A 1-453-187-11	TRANSFORMER ASS	Y. FLYBACI	(NK-2661/UZE)	R1704	1-249-415-11	CARBON	680 5%	1/4	
<b>T</b> 806	1-413-059-00	TRANSFORMER, FE	RRITE (DF	7)	R1705	1-247-791-91	CARBON	22 5%	1/4%	
					R1706	1-247-791-91	CARBON	22 5%	1/40	
					R1707	1-247-807-31	CARBON	100 5%	1/4%	
					R1708	1-249-410-11	CARBON	270 5%	1/4%	

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REF.NO.	PART NO.	DESCRIPTION		<del>-</del> !	REMARK	REF.NO.	- PART NO.	DESCRIPTION	REMARK
R1709 R1710	1-249-401-11 1-249-401-11		47 5% 47 5%	1/4W 1/4W		-	*A-1646-099-A	H2 BOARD, COMPLETE {	KV-28WS3A/28WS3D/ 28WS3E/28WS3K/ 28WS3D)
R1711 R1712 R1713	1-249-429-11 1-260-311-11 1-249-384-11	CARBON	10K 5% 39 5% 1.8 5%	1/4W 1/2W 1/4W				***********	
R1714 R1715	1-249-414-11 1-249-432-11		560 5% 18K 5%	1/4W 1/4W	F		*4-374-987-01 4-381-686-01	GUIDE, LIGHT BRACKET (B), LIGHT G	UIDE
R1716 R1717	1-249-417-11 1-216-476-11		1K 5% 180 5%	. 1/4W 3W	F F	 	< COM	NECTOR >	
R1718 R1719	1-249-432-11	CARBON	18K 5% 1.8 5%	1/4W 1/4W		CN1214	*1-564-511-11	PLUG, CONNECTOR 8P	
R1720	1-249-400-11		39 5%	1/4W	F		< DIO	DE >	
R1721 R1722	1-249-414-11 1-249-401-11	CARBON	560 5% 47 5%	1/4W 1/4W		D091		DIODE LD-201DU (KV-28WS3A/28WS3D/28	WS3E/28WS3K/28WS3U)
R1723 R1841	1-249-426-11 1-247-871-91	CARBON	5.6K 5% 47K 5% 10K 5%	- 1/4W		D092		DIODE LD-201VR HOLDER, LED ; D092	
R1842 R1843	1-247-764-11		2.2K 5%			D093		DIODE LD-201VR HOLDER, LED ; D093	
R1844 R1847	1-249-421-11	CARBON	2.2K 5% 33 5%	1/4W		D094	8-719-948-31	DIODE LD-201VR HOLDER, LED ; D094	
R1848 R1849	1-215-875-11 1-247-764-11		10K 5% 10K 5%		F		< IC	>	
******	*********	**********	******	*******	******	IC091	8-741-810-11	IC SBX1810-11	
	*A-1646-098-A	H1 BOARD, COM					< RES	ISTOR >	
	1-568-678-11	TERMINAL BLOC	ж, в зр			R091	1-249-413-11		5% 1/4W
	1-764-506-11		•			*****		*********	******
		PACITOR >					*A-1651-073-A	J BOARD, COMPLETE	
C081 C082	1-102-973-00 1-102-973-00	CERAMIC	100PF 100PF	5% 5%	50V 50V 50V		< CAF	ACITOR >	
C083 C087	1-101-005-00 1-101-005-00		0.022MF 0.022MF		50V	C270 C271	1-163-063-00 1-163-063-00	CERANIC CHIP 0.022MI CERANIC CHIP 0.022MI	
	< CON	DECTOR >				C273	1-101-003-00 1-101-003-00	CERAMIC 0.00471 CERAMIC 0.00471	r 50V
CN1113 CN1123		PIN, CONNECTO PLUG, CONNECTO				C275	1-101-005-00 1-101-005-00		
	< CO	IT >				C290 C295 C296	1-163-009-11	CERAMIC CHIP 0.001MI CERAMIC CHIP 0.001MI	10% 50V
L081 L082	1-408-409-00 1-408-409-00		100H 100H			C401 C402		CERAMIC CHIP 0.47MF	16V 20% 16V
	< RE	SISTOR >				C403		CERAMIC CHIP 0.47MF	16V
R081	1-249-429-11		10K 5%			C410 C421	1-126-966-11 1-126-967-11	ELECT 47MF	20% 50V 20% 50V
R082 R083	1-249-425-11	CARBON	4.7K 5% 2.2K 5% 1.5K 5%	1/4W		C422 C423	1-126-967-11 1-163-031-11	ELECT 47MF CERAMIC CHIP 0.01MF	20% 50♥ 50♥
R084 R085	1-249-419-11 1-249-419-11			1/40		C424 C425		CERAMIC CHIP 330PF CERAMIC CHIP 330PF	5% 50V 5% 50V
	< 510	TTCH >				C426 C427	1-126-967-11		20% 16V 16V
S081 S082		SWITCH, TACT				C428		CERANIC CHIP INF	16∀″
5083	1-571-532-21	SWITCH, TACT	IL			C429 C901		CERAMIC CHIP 0.0015	
						C902 C904 C905	1-163-129-00	CERAMIC CHIP 0.0015 CERAMIC CHIP 330PF CERAMIC CHIP 330PF	4F 10% 50V 5% 50V 5% 50V
						C906	1-101-004-00		
						C907	7-143-153-00	CREWITT CETL DOLL	74 304

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	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	C908 C909 C910	1-101-004-00	CERAMIC CHIP 330PF CERAMIC 0.01MP CERAMIC CHIP 0.0047MF	5% 10%	50V 50V 50V	D920 D921 D922	8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A	
	C911 C912 C913 C914 C915	1-163-129-00 1-163-129-00 1-163-129-00	CERAMIC CHIP 0.0047MP CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF CERAMIC CHIP 330PF	10% 5% 5% 5% 5%	50V 50V 50V 50V	D923 D924 D925 D926 D927	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A	
-	C916 C917 C918 C919 C920	1-163-011-11 1-163-121-00 1-163-121-00	CERAMIC CHIP 0.0015MF CERAMIC CHIP 0.0015MF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 0.0015MF	10% 10% 5% 5% 10%	50V 50V 50V 50V 50V	D928 D930 D931 D932	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A	
	C921	1_163_011_11	CERANIC CHIP 0.0015MF	10%	50V	į I	< IC	>	
	C922 C923 C924	1-126-967-11 1-164-346-11 1-126-967-11	ELECT 47MF CERAMIC CHIP 1MF ELECT 47MF	20% 20%	16V 16V 16V	IC401 IC402	8-752-068-46 8-759-073-00		
	C925	1-126-967-11	ELECT 47KF	20%	16V		< SOC	KET >	
	C926 C928 C929 C930 C931	1-126-967-11 1-126-967-11 1-126-967-11	BLECT 47MP	20% 20% 20%		J291 J292 J901 J903 J904	1-537-978-11 1-695-296-11 1-561-534-41	TERMINAL BOARD TERMINAL BLOCK, S SOCKET, PIN 21P TERMINAL BLOCK,	
	C932 C933 C935 C936 C937	1-126-967-11 1-126-967-11 1-164-346-11		20% 20%	16V 16V 16V 16V 16V	J905 J906 J907	1-695-293-11 1-695-296-11 1-695-293-11 < COI	TERMINAL BLOCK, S SOCKET 21P	
	C938	1-126-967-11	ELECT 47MF	20%	16V	L284	1-402-711-11	INDUCTOR, WIDEBAND	
		< 008	INECTOR >			L291 L292	1-402-711-11	INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND	
	CN0806	1-695-301-11	CONNECTOR, BOARD TO BOAR	RD 40P		L294 L295	1-402-711-11	INDUCTOR, WIDEBAND INDUCTOR, WIDEBAND	
	CNO 823 CNO 824 CNO 825	1-564-524-11 *1-564-519-11	CONNECTOR, BOARD TO BOAM PLUG, CONNECTOR 9P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P	RD 20P		L296	1-402-711-11	INDUCTOR, WIDERAND WSISTOR >	
		< DIO	DDE >			0401		TRANSISTOR 25C2412K-QR	
	D401 D403 D405	8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A			Q402 Q403 Q404	8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
	D406 D407	8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A				< RES	ISTOR >	
	D901 D902 D903 D904 D905	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A			JR291 JR292 JR294 JR296 JR297	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10 W 1/20 W 1/10 W 1/10 W 1/80
	D906 D907 D908 D909	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A			JR298 JR401 JR402 JR403 JR404	1-216-296-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/87 1/1/84 1/1/84 1/1/84 - 1/1/84
	D911 D913 D914 D915 D916	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A			JR407 JR408 JR901	1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/194 1/194 1/194 1/194 1/194
	D917 D919	8-719-923-60 8-719-923-60	DIODE MTZJ-T-77-9.1A DIODE MTZJ-T-77-9.1A		ŀ	JR905 JR907 JR908	1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5%	1/8) 1/8) 1/8)

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REF.NO.	PART NO.	DESCRIPTION	_		REMARK	REF.NO.	PART NO.	DESCRIPTION	Į		REMARK	<u>,                                    </u>
JR909 JR910 JR911	1-216-295-91 1-216-296-91 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W	R919 R920 R921	1-216-063-91 1-216-063-91 1-216-022-00	metal glaze Metal glaze Metal glaze	3.9K 3.9K 75	5% 5% 5%	1/10W 1/10W 1/10W	
R283 R284 R285 R286 R291	1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 10K 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R922 R923 R924 R925 R926	1-216-073-00 1-216-039-00 1-216-039-00 1-216-089-91 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 390 390 47K 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R292 R293 R294 R401 R403	1-216-190-00 1-216-216-00 1-216-216-00 1-216-158-00 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5.6K 5.6K 22 100	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W	R927 R928 R929 R930 R931	1-216-039-00 1-216-089-91 1-216-063-91 1-216-113-00 1-216-063-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R404 R405 R406 R407 R410	1-216-158-00 1-216-025-91 1-216-158-00 1-216-025-91 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 100 22 100 100	5% 5% 5% 5%	1/BW 1/10W 1/BW 1/10W 1/8W	R932 R933 R934 R935 R936	1-216-113-00 1-216-073-00 1-216-063-91 1-216-022-00 1-216-171-00	NETAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE	470K 10K 3.9K 75 75	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	
R411 R412 R413 R414 R416	1-216-174-00 1-216-022-00 1-216-022-00 1-216-022-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 75 75 75 470K	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R937 R938 R939 R940 R941	1-216-113-00 1-216-039-00 1-216-039-00 1-216-063-91 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 390 390 3.9K 470K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	-
R417 R419 R420 R421 R423	1-216-067-00 1-216-113-00 1-216-067-00 1-216-171-00 1-216-015-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 470K 5.6K 75	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	R942 R943 R944 R945 R946	1-216-039-00 1-216-089-91 1-216-039-00 1-216-089-91 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 47K 390 47K 75	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R424 R425 R428 R429 R430	1-216-174-00 1-216-174-00 1-249-393-11 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	100 100 10 4.7K 4.7K	5% 5% 5% 5%	1/8W 1/8W 1/4W F 1/10W 1/10W	R948 R949 R950 R951 R952	1-216-073-00 1-216-113-00 1-216-063-91 1-216-063-91 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 470K 3.9K 3.9K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R431 R432 R433 R434 R435	1-216-065-00 1-216-065-00 1-216-296-91 1-216-049-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 0 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W	R953 R954 R955 R956 R957	1-216-039-00 1-216-039-00 1-216-039-00 1-216-089-91 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 390 390 47K 390	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R436 R437 R438 R439 R440	1-216-049-91 1-216-049-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE METAL GLAZE	1K 1R 0 0	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/8W	R958 R959 R960 R961 R967	1-216-089-91 1-216-674-11 1-216-674-11 1-216-674-11 1-216-171-00	METAL CHIP	9.1K	5% 0.50% 0.50% 0.50% 5%	1/10W	
R901 R902 R903 R904 R905	1-216-039-00 1-216-039-00 1-216-113-00 1-216-113-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	390 390 470k 470k 390	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R968 R969 R970 R971 R972	1-216-055-00 1-216-055-00 1-216-055-00 1-216-055-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 1.8K 1.8K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R906 R907 R908 R909 R910	1-216-039-00 1-216-171-00 1-216-171-00 1-216-113-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	390 75 75 470K 1.8K	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W	R973 R974 R975 R976 R977	1-216-055-00 1-216-055-00 1-216-113-00 1-216-055-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 1.8K 470K 1.8K 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R911 R913 R914 R915 R916	1-216-022-00 1-216-063-91 1-216-063-91 1-216-113-00 1-216-113-00	metal glaze metal glaze metal glaze	75 3.9K 3.9K 470K 470K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W							
R917 R918	1-216-171-00 1-216-171-00		75 75	5% 5%	1/8W 1/8W							

					2.8.4				T
REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	ON	REMARK
	*A-1654-017-A	T BOARD, COMPLETE (EV-2			C5152	1-124-925-11		2.2MF - 20	
	*A-1654-020-A	T BOARD, COMPLETE (EV-2	8WS3E/2: 8WS3B)	8WS3K}	C5154	1-216-295-91	METAL GLAZE	0 5% 1,	/10W (KV-28WS3B)
	*A-1654-019-A	T BOARD, COMPLETE (KV-2	BWS3V)			< FI	LTER >		
	< CAI	PACITOR >			CF5101	1-760-106-11	FILTER, CERA (KV-2	MIC 8WS3A/28WS3D/28	8W\$3E/28W\$3K)
C5101	1-104-664-11	ELECT 47MF	20%	25V	CF5102	1-567-100-00 1-760-450-21	FILTER, CERA	MIC (KV-28WS3B) MIC (KV-28WS3B)	)
C5110 C5111		CERAMIC CHIP 0.01MF	10% 10% (K)	50V 50V V-28W\$3B)	CF5103	1-760-106-11	FILTER, CERA	MIC (KV-28WS3B) MIC (KV-28WS3D)	· }
C5112	1-164-232-11	CERAMIC CHIP 0.01MP	10%	50⊽		**	INECTOR >		
	'	(KV-28WS3A/28WS3B/28WS3I METAL GLAZE 0 5%		E/28WS3K)	CN5151		PIN, CONNECT	AP 70	
C5113		CERANIC CHIP 0.018MF	,	V-28WS3U) 50V	CN5152	*1-568-882-51			
	4 200 001 00	omanic one vivion		7-28WS3B)	i	< TRI	DOMER >		
C5114 C5115	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 2PF	10% 0.25PE	50V	CT5104	1-409-430-11	TRAP, CERAMIC	C	
C5116 C5117	1-163-090-00	CERAMIC CHIP 7PF CERAMIC CHIP 1MF	0.25PH 10%		CT5105	1-409-333-00	TRAP, CERAMIC	8WS3B/28WS3D/28 C (6.0MHz) (KV-	2BWS3U)
45111	1 101 002-11	chance our in		7-28WS3B)	C13103		TRAP, CERAMIC	; (KA-S8M83R)	
C5118 C5119	1-124-925-11 1-124-925-11		20% 20%	50V 50V	25182	< DIO			
C5120 C5121	1-104-664-11	ELECT 47MP	20%	25V	D5102		DIODE DAN2021 (KV-28WS3A/28	8WS3B/28WS3D/28	WS3E/28WS3E)
C5122	1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10%	50V 50V	D5103 D5104	8-719-914-43 8-719-914-43	DIODE DAN2021 DIODE DAN2021	( (KV-28WS3B) K (KV-28WS3B)	
C5123 C5125		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF	10% 10%	25V 16V		< IC	>		
C5127 C5128	1-126-965-11 1-163-133-00	ELECT 22MF CERAMIC CHIP 470FF	20% 5%	50V 50V	IC5102 IC5103		IC CXA1875AN- IC TDA9813T/V		
C5129	1-163-016-00	CERAMIC CHIP 0.0039MF	10% (KV	50V (-28W53B)	IC5104	8-759-360-90	(KV-28WS3A/28	BWS3D/28WS3E/28 73-T3 (KV-28WS3:	WS 3K/28W53U) B)
C5130 - C5131	1-104-664-11 1-164-004-11	ELECT 47MF CERAMIC CHIP 0.1MF	20% 10%	25V 25V	103104	< COI		(DA-50M93D)	
C5132		CERAMIC CHIP 0.01MF	10%	50V (-28W83B)	( *=101			60	
C5133		CERAMIC CHIP 0.01MF	10%	50V	L5101 L5102	1-408-419-00 1-408-408-00	INDUCTOR	68UH 8.2UH 8WS3A/28WS3D/28U	W\$131E/28W\$3#1
C5134 C5135	. 1-164-232-11 1-104-664-11	CERAMIC CHIP 0.01MF BLECT 47MF	10% 20%	50V 25V		1-408-407-00		6.8UH	W8:3B/28WS3U)
C5136	1-104-664-11	ELECT 47MF	20% (KV	25V -28WS3B]	L5103	1-408-411-00	INDUCTOR	15UH	-120120ND30 )
C5137	1-163-024-00	CERAMIC CHIP 0.018MF (EV-28WS3A/28WS3D/28WS3E	10%	50¥	L5104 L5105 L5106	1-408-876-00 1-412-748-21	INDUCTOR	0.22UH (KV-28W) 10UH (KV-28W) 39UH (KV-28W)	SIB)
C5139	1-163-251-11	CERAMIC CHIP 100PF	5% (100	50V -28WS3B)	L5107	1-408-421-00	INDUCTOR	1000H	1163)
C5140	1-163-113-00	CERAMIC CHIP 68PF	5%	50V -28WS3E)	L5108 L5109	1-408-413-00 1-408-419-00	INDUCTOR INDUCTOR	22UH	
C5142	1-163-239-11	CERAMIC CHIP 33PF	5%	50V -28WS3B)	T5101	1-403-686-11		6BUH	
C5144	1-163-097-00	CERAMIC CHIP 15PF	5%	50V		< TRA	NSISTOR >		
C5145 C5146		CERANIC CHIP 0.01MF	10%	-28WS3B) 50V	Q510 <b>4</b>	8-729-027-59			
C5146	1-104-664-11 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.01MF	20% 10%	25V 50V	Q5105	8-729-027-59	TRANSISTOR DT		
C5150 C5151	1-126-933-11 1-126-964-11	ELECT 109MF ELECT 109F	20% 20%	16V 16V	Q5106	8-729-027-59	(KV-28WS3A/28' TRANSISTOR DT	WS3B/28WS3D/28D C144EKA-T146 (F	(\$ E /28WS3K) (\$ - 28WS3B)
	1-126-933-11	(KV-28WS3A/28WS3D/28WS3E	/28W\$3K 20%		Q5107 Q5108 Q5109	8-729-920-74	TRANSISTOR 2S	C144EKA-T146 (F C2412K-QR	(V- 26NS3B)
			120	aumoabj	Q5110	8-729-920-74 8-729-920-74	TRANSISTOR 28	C2412K-QR C2412K-QR (KV-2	(8 <b>/</b> 538)

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
Q5111	8-729-027-59	TRANSISTOR DTC144EKA-T146 (KV	7-28WS3B)	R5128	1-216-043-91	METAL GLAZE 56 (KV-28WS3A/28WS3		1/10W /2RWS3R/2RWS3K)
Q5112 Q5113 Q5114	8-729-027-59 8-729-027-59 8-729-022-54	TRANSISTOR DTC144EKA-T146 (KV		R5129	1-216-057-00		2K 5%	1/10W
Q5115 Q5116	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G		R5130	1-216-057-00	METAL GLAZE 2.	2R 5%	1/10W (KV-28WS3B)
Q5117	8-729-216-22	TRANSISTOR 2SA1162-G (KV-28WS		R5131	1-216-295-91		5% A/28WS3D/	1/10W /28WS3E/28WS3E)
Q511B Q5121	8-729-920-74 8-729-027-59				1-216-043-91	METAL GLAZE 0	5%	1/10W -28WS3B/28WS3U)
3	< RES	SISTOR >		R5132	1-216-029-00	METAL GLAZE 15 (KV-28NS3A/28WS3		1/10W /28WS3K/28WS3U)
JR5101 JR5102	1-216-295-91 1-216-295-91				1-216-027-00			1/10W (KV-28WS3B)
JR5105	1-216-295-91	METAL GLAZE 0 5% 1/1		R5133	1-216-061-00		3K 5%	1/10W
		(EV-28WS3A/28WS3D/28WS3E/28WS	3K/28WS3U)	R5134	1-216-093-00			1/10W
JR5106	1-216-295-91	METAL GLAZE 0 5% 1/1	ΔW	R5135 R5136	1-216-093-00 1-216-041-00			1/10W
002200	1-210-293-31	(EV-28WS3A/28WS3D/28WS3E/28WS	***	R5137	1-216-041-00			1/10W 1/10W
JR5107	1-216-295-91		OW	R5138	1-216-073-00			1/10W
JR5108	1-216-295-91			R5139	1-216-063-91	METAL GLAZE 3.	9K 5%	1/10W
JR5109	1-216-295-91	METAL GLAZE 0 5% 1/1	DW	R5140	1-216-067-00	METAL GLAZE 5.	6K 5%	1/10W (KV-28WS3B)
JR5110	1-216-295-91		OW WO	R5141	1-216-073-00	METAL GLAZE 101	K 5%	1/10W (EV-28WS3B)
JR5111	1-216-295-91		DW	R5142	1-216-077-00	METAL GLAZE 15	K 5%	1/10W
				R5143	1-216-689-11			1/10W
JR5113	1-216-295-91			R5144	1-216-057-00			2,2011
JR5114	1-216-295-91		0W	R5145 R5146	1-216-069-00 1-216-057-00	METAL GLAZE 6.0 METAL GLAZE 2.2		1/10W 1/10W
JR5115	1-216-296-91	•	KV-28WS3B)	R5147	1-216-037-00	METAL GLAZE 330	5%	1 (1 / / / / / /
	1-210-230-31		KV-28WS3B}	R5148	1-216-295-91		5%	1/10W 1/10W 20ME2F/20ME2T()
JR5116	1-216-296-91	METAL GLAZE 0 5% - 1/80	W		1-216-017-91	METAL GLAZE 47	5%	1/10W
JR5117	1-216-296-91				1 210 41, 31	avenu vining 11	34	(KV-28WS3B)
R5112	1-216-073-00		OW KV-28WS3B)	R5149 R5150	1-216-180-00 1-216-057-00	METAL GLAZE 180 METAL GLAZE 2.2		1/8W 1/10W
R5113	1-216-025-91				- 4 10, 02			(KV-28WS3B)
R5114	1-216-025-91		QW	R5151	1-216-057-00	METAL GLAZE 2.2	K 5%	1/10W
R5115	1-216-073-00		0W KV-28WS3B)				,	(KV-28WS 3B)
R5116	1-216-073-00			R5152	1-216-057-00		R 5%	1/10W (KV-28WS38)
DE112			KV-28WS3B)	R5153	1-216-174-00	METAL GLAZE 100		1/8W
R5117	1-216-049-91			R5154	1-216-059-00	METAL GLAZE 2.7		1/10W
R5119	1-216-049-91			R5155 R5156	1-216-053-00	METAL GLAZE 1.5		1/10W
		(AY-20003E) 20003D) 20003U) 2000	JE/ SOMOJE)	R5158	1-216-025-91 1-216-049-91			1/10W 1/10W
R5120	1-216-025-91	METAL GLAZE 100 5% 1/10	ÓW I	R5160	1-216-049-91			1/10W
R5121	1-216-049-91	METAL GLAZE 1K 5% 1/10					• • •	(KY-28WS 3B)
R5122	1-216-073-00							•
R5123	1-216-057-00	METAL GLAZE 2.2K 5% 1/10 (KV-28WS3A/28WS3B/28WS3D/28WS3		R5161	1-216-295-91	(KV-28WS3A/28WS3D		1/10W 28WS3K/28WS 3D)
R5124	1 117 558 64	MORE COMPANY A COMPANY OF THE COMPANY	077		1-216-037-00	METAL GLAZE 330	5%	1/10W
aver f	1-216-057-00	METAL GLAZE 2.2K 5% 1/10 (KV-28WS3A/28WS3B/28WS3D/28WS3		R5162	1-216-037-00	METAL GLAZE 330	5%	(KV-28WS 3B) 1/10W
R5125	1-216-057-00	METAL GLAZE 2.2K 5% 1/10		erar de V M	_ mrs nst_66	GILLIA JJV	JT	(KV-28WS 3B)
R5126	1-216-057-00			R5163	1-216-037-00	METAL GLAZE 330	5%	1/10W
			KV-28WS3B)	R5164	1-216-037-00			1/10W (KV-28WS 3B)
R5127	1-216-043-91	METAL GLAZE 560 5% 1/10 (EV-26WS3A/26WS3B/28WS3D/28WS3						(NI - EURO - EV)

The components identified by shading and marked in are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque  $\dot{n}$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5165	1-216-025-91	METAL GLAZE 100 ! (KV-28WS3A/28WS3D/28	5% 1/10W WS3E/28WS3K/28WS3U)			ELLANEOUS *******	
	1-216-043-91		5% 1/10W		* 380 646 14	GAZI PROLUGINA	
R5166	1-216-049-91	METAL GLAZE 1K	(KV-28WS3B) 5% 1/10W	/t.		COIL, DEGAUSSING MAGNET, DISK; 10MM Ø	
KULDO	1-010-043 31	ALIAL CAMPA JA	(KV-28WS3B)		1-452-094-00	MAGNET, ROTATABLE DIS	SK; 15MM Ø
DC1 C0	1-216-295-91	METAL GLAZE 0	5% 1/10W	Δ. 4.	1-452-724-11	COIL, NA ROTATION (RITERANSFORMER ASSY, FL)	(BACK (MX-2661/U2B)
R5168	1-510-533-31	MAIAN GIMAN U	(KV-28WS3B)				
R5169	1-216-049-91	METAL GLAZE 1K (KV-28WS3A/28WS3D/28	5% 1/10W		1-504-418-21	SPEARER (5CM) SPEARER (6.5CM)	
	1-216-033-00		1/10W		1-505-155-11	SPEAKER (10CM)	
	1-220 033 00	IIIIII GIAIDO	(KV-28WS3B)	4	1-540-006-22	CAP ASSY, HIGH-VOLTAG	<b>35</b>
			ma a 24 Ana	Æ	1-571-433-21	SWITCH, PUSH (AC POWE	SR)
R5170	1-216-073-00 1-216-093-00		5% 1/10W 5% 1/10W		1-693-315-21	TUNER (UV1316)	
R5171 R5176	1-216-295-91		5% 1/10W		1-033 343 84	(KV-28WS3A/28WS3B/28)	(S3D/28WS3E/28WS3K)
R5177	1-216-025-91		5% 1/10W		1-693-314-21	TUNER (U1344) (KV-28)	<b>(</b> \$30)
R5178	1-216-025-91	METAL GLAZE 100	5% 1/10W	Δ.	4 754 500 44	CORD, POWER (WITH NO	ופס הדותים)
DE100	1-215-222-00	METAL GLAZE 10K	5% 1/ <b>8W</b>	20	1-131-090-11		MS3A/28WS3B/28WS3D/
R5180 R5181	1-216-049-91		5% 1/10W			2002,2007	28WS3E/28WS3K)
R5182	1-216-049-91	METAL GLAZE 1K	5% 1/10W	<u>A</u>	1-590-762-11	CORD, POWER (WITH PL	
			(KV-28WS3B)			2.5A/250V (EV-28WS3B)	)
R5183	1-216-174-00	metal Glaze 100	5% 1/8W	). A	8-451-433-11	DEFLECTION YOKE (Y28	gich)
R5184	1-216-180-00	METAL GLAZE 180	5% 1/8W	A.	8-453-005-31	NECK ASSY, (NA297-M3 PICTURE TUBE (SD-284	
	< VAI	RIABLE RESISTOR >				********	
WYE101	1 041 565 11	RES, ADJ, CARBON 22K		*******	*************		
RV5101 RV5102	1-241-765-11	RES, ADJ, CARBON 22K	(XV-28WS3B)			SSORIES AND PACKING M	
SF5101	1-760-538-11	FILTER, SURFACE WAVE			4 705 054 11	ALDER GDRAVED	
	1 590 505 41	(KV-28WS3A/28 FILTER, SURFACE WAVE	WS3D/28WS3E/29WS3K)			CABLE, SPEAKER CUSHION (LOWER) (ASS	Y)
	1-3/9-2/3-11	FILTER, SURFACE WAVE	(KV-28WS3U)			CUSHION (UPPER) (ASS	
SP5102	1-760-244-11	FILTER, SURFACE WAVE	(KV-28WS3B)		*4-050-193-01	INDIVIDUAL CARTON	
	< TU	NER >			4-203-155-41	MANUAL, INSTRUCTION (ITALIAN)	(KV-28WS3A)
TU5101	1-693-315-21	TUNER (UV1316) (KV-28WS3A/28WS3B/28	wcan/10wc2r/10wc2r\		4-203-155-51	MANUAL, INSTRUCTION (FRENCE)	(KV-28WS3B)
	1-693-314-21	TUNER (U1344) (KV-28			4-203-155-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/DUTC	
******	********	***********	*******			ITALIAN)	a, deput, rangem
					4-203-155-71	MANUAL, INSTRUCTION (DANISH/DUTCH/FIMNIS NORWEGIAM/PORTUGUES	H/FRENCH/GERMAN/
					4-203-155-91	MANUAL, INSTRUCTION (BULGARIAN/CZECH/HUN ENGLISH/POLISH)	(KV-28WS3K)
					4-203-155-61	MANUAL, INSTRUCTION	(KV-28WS3U)

## REMOTE COMMANDER

\*4-395-957-01 BAG, PROTECTION

(ENGLISH)

1-466-854-41 COMMANDER, STANDARD TYPE (RN-850) 1-473-407-11 COMMANDER, STANDARD TYPE (RM-838) 9-903-466-01 POCKET, COVER (FOR RM-838)

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